File ROW OCS-G 4032 Segment # 5438

WILLIAMS FIELD SERVICES COMPANY
ONE OF THE WILLIAMS COMPANIES, INC.

2800 Post Oak Blvd.
Houston, Texas 77056
(713) 439-2000

February 17, 1996

R/A

U. S. Department of the Interior
Minerals Management Service
1201 Elmwood Park Blvd.
New Orleans, LA 70123

Attn: Mr. Alex Alvarado, Supervisor - Pipeline Unit

Re: Relinquishment and Abandonment of Segments 1582, 5438 and 6729

Dear Mr. Alvarado:

TGPL's letter dated March 23, 1995 requested MMS approval to relinquish OCS-G 0678, Segment 1582, and abandon the line in place. Approval was granted in MMS letter dated May 3, 1995. VR 86,76

TGPL's letter dated February 22, 1995 requested MMS approval to relinquish OCS-G 4032, Segment 5438, and abandon the line in place. Approval was granted in MMS letter dated April 10, 1995. VR 30,313

TGPL's letter dated March 22, 1995 requested MMS approval to relinquish Segment 6729 and abandon the line in place. Approval was granted in MMS letter dated April 12, 1995. GA A23

In letters dated May 22, TGPL requested that the rights-of-way for Segments 1582 and 5438 be reinstated.

As requested by MMS, TGPL's letter dated September 27 contained an application for a new right-of-way grant to cover Segment 6729 (a right-of-use or easement pipeline). TGPL's letter dated December 8 requested that the application for Segment 6729 be withdrawn.

Producer interest in these three lines caused TGPL to request reinstatement of these rights-of-way. Following additional negotiations, however, we no longer anticipate any further use of the three lines and request that MMS take no further action to reinstate these rights-of-way.

Accordingly, the three referenced lines have been abandoned in accordance with the procedures provided to MMS. As of February 16, 1996 the MMS pipeline data base indicated Segments 1582 and 5438 to be "R/A" - this is correct. Segment 6729 is indicated "PABN" - this should be changed to "R/A".

4032 5438

ple 3/14/96

A check in the amount of $1,415.00 was sent with my September 27, 1995 application to "reinstate" the right-of-way for Segment 6729. This right-of-way was never granted. MMS's invoice to TGPL for 1995 rentals due did not contain a $15.00 payment due for Segment 6729. Please advise me of the process for obtaining a refund for the $1,000.00 balance.

I apologize for the confusion and extra paperwork that has been created in dealing with these three lines. Even though to some extent it is beyond our control to react when approached by the producers to reinstate a line, I will do all I can to minimize this sort of thing in the future by requesting approvals of temporary cessations of operation instead of relinquishment and abandonment. In the meantime, I thank you for your assistance and patience.

Please call me at (713) 439-2631 if there are any questions.

Sincerely,

Tony Dieste
Permit Agent

File: OCS-G 0678, Segment 1582 (Line 2-101-24-4)
OCS-G 4032, Segment 5438 (Line 2-110-5-1-6-3-2)
Segment 6729 (Line 1-110-6-3-2-)

SN 5438

3/23/95
mConner

APR 10 1995

In Reply Refer To: MS 5232

Transcontinental Gas Pipe Line Corporation
Attention: Mr. James R. Gattis
Post Office Box 1396
Houston, Texas 77251-1396

Gentlemen:

Your letter dated February 22, 1995, requests approval to abandon in place 11,683 feet (2.21 miles) of 12 3/4-inch pipeline designated as Segment No. 5438, and to relinquish in its entirety, Right-of-Way Grant OCS-G 4032, associated therewith. The subject pipeline originates at Transco Exploration Company's Platform B in Block 310 and terminates at a subsea tie-in with Transcontinental Gas Pipe Line Corporation's (TRANSCO) 20-inch pipeline (OCS-G 3458) in Block 313, Vermilion Area, South Addition.

Pursuant to 30 CFR 250.4(b), approval is hereby granted to abandon the above-described pipeline, and in accordance with 30 CFR 250.159(c)(9), the requirement that the pipeline be removed is hereby waived. However, in the future should it be determined that this abandoned pipeline constitutes a hazard to navigation or commercial fishing operations or unduly interferes with other uses of the Outer Continental Shelf, TRANSCO shall be required to remove it.

Pursuant to 30 CFR 250.150(b), the relinquishment of the right-of-way grant associated with the pipeline that is to be abandoned in place is hereby accepted effective March 3, 1995, subject to TRANSCO completing the abandonment operations by December 31, 1995. Additionally, TRANSCO shall within 30 days after completion of the abandonment, submit a report to this office which includes the date the abandonment was completed and verifies that the abandonment was completed as approved.

Sincerely,

(Orig. Sgd.) Kent E. Stauffer

Donald C. Howard
Regional Supervisor
Field Operations

bcc: 1502-01 (P/L OCS-G 4032) w/enclosures (K.Faust) (MS 5232)
1502-01 (P/L OCS-G 4032) (microfilm) (MS 5033)
MS 5421
MS 5280
MS 5232 Carto w/plat

MConner:jvl:03/22/95:TRANSCO.032

gm mf 4/10/95 18

G 4032

Transcontinental

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Kelly

UNITED STATES GOVERNMENT
MEMORANDUM

3/6/95

To: Leasing Activities Section, Adjudication Unit (MS 5421)

From: Petroleum Engineer, Pipeline Unit, Plans and Pipeline Section, Field Operations, GOM OCS Region (MS 5232)

Subject: Adjudication of Pipeline Right-of-Way Abandonment and Relinquishment

OCS-G 4032 Segment No. 5438

The subject request is attached for your adjudication. If you have any questions regarding this matter, please contact Mr. Mike Conner at extension 2544.

Mike Conner

Attachments

Application dated Feb 22 1995 w/attach

R. J. Holmes OK Please initial and return if request meets all necessary criteria.

Transcontinental Gas
Pipe Line Corporation
A Transco Energy company

2800 Post Oak Boulevard
P.O. Box 1396
Houston, Texas 77251-1396
713-439-2000

G-4032
SN 5438
Kelly

February 22, 1995

U. S. Department of the Interior
Minerals Management Service
1201 Elmwood Blvd.
New Orleans, LA 70123

ATTN. Mr. Mike Conner

Re: Right-of-Way Relinquishment and Pipeline Abandonment - 2.20 Miles of 12" Natural Gas Pipeline From Block 310 to Block 313, Vermilion Area (OCS-G 4032, Segment 5438)

Dear Mr. Conner:

By U.S. Department of the Interior, Bureau of Land Management, letter dated July 30, 1979 Transcontinental Gas Pipe Line Corporation (TGPL) was granted a right-of-way for the referenced pipeline which, as constructed, extended between the Transco Exploration Company's "B" platform in Block 310 to an existing valve (LE-1615) on TGPL's 20" pipeline between Vermilion 331 and South Marsh Island 106 (see attached Drawing 22-12-7091/CE-A-001).

Since production at the Block 310 platform has ceased, TGPL no longer requires the service of this pipeline. Therefore, in accordance with 30 CFR 250.164, TGPL now wishes to release, relinquish and surrender to the United States of America all of its rights, title and interest in this 2.20 mile right-of-way and hereby requests MMS approval and acceptance of same.

Further, TGPL proposes to retire and abandon the line in place. Accordingly, TGPL requests a written waiver of the removal requirement contained in 30 CFR 250.159 (c)(9).

TGPL proposes to abandon and retire the pipeline in place following the procedure given below (please refer to attached diagrammatic valve chart DV-LA-314):

1. Locate underwater tap valve LE-1615 at M.P. 11.29 on the 20" line between Vermilion 331 and South Marsh Island 106.

2. Jet out the tap valve and tie-in assembly and operate tap valve LE-1615 to the half-open position.

3. Lock open the underwater check valve.

4. Insert the poly pig at the Vermilion 310 "B" platform and force condensate into the downstream 20" pipeline by pushing pig with water by means of a high pressure water pump.

5. When the pig arrives at the half-open LE-1615 valve the pressure should spike. At this time, discontinue pumping and close the LE-1615 valve.

6. Release the pressure in the 10" pipeline and disconnect the subsea tie-in assembly. Install a blind flange on the tap valve. Install a pipe stopper in the pipeline end and bury a minimum of 3' below the mud line and cover the end with sand bags.

7. Cut the 10" pipeline underwater at the "B" platform in the horizontal and vertical position and remove the tube turn.

8. Insert a stopper in the end of the pipeline and bury with a minimum of 3' cover. Place sand bags over the end of the pipe.

9. Cut the riser at the +10' elevation and remove that portion of the riser below the +10' elevation. Remove the remainder of the above water riser and appurtenant platform piping.

If you require additional information in order to complete your review and approval of this request, please call Tony Dieste of my Staff at (713) 439-2631. Thank you very much for your assistance.

Sincerely,

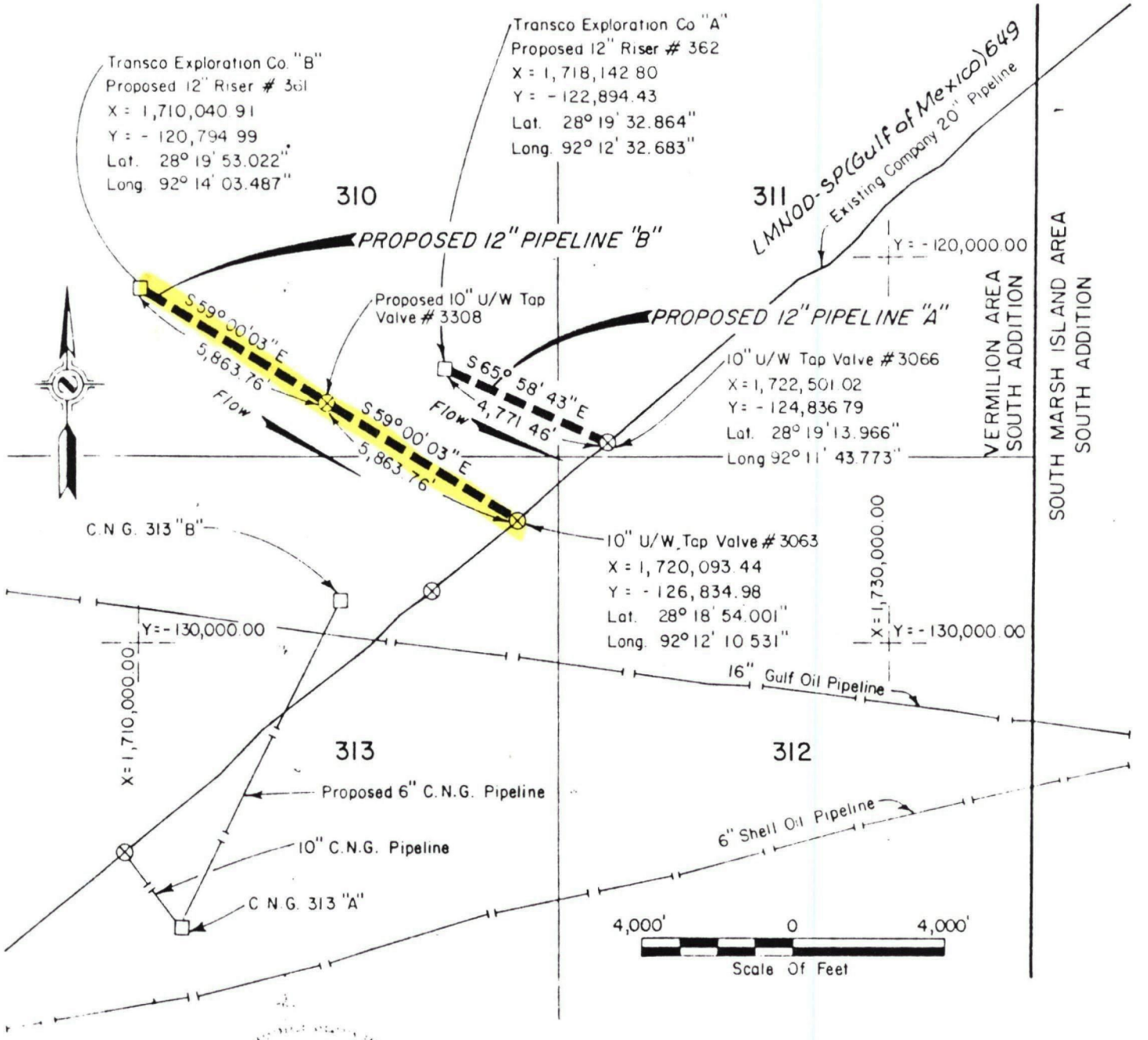
James R. Gattis

James R. Gattis
Senior Vice President, Technical Services

JRG/td
attach.

TGPL Line No. 2-110-5-1-6-3-2
OCS 4032, Segment 5438
GUN No. 63-0224

VERMILION AREA
SOUTH ADDITION



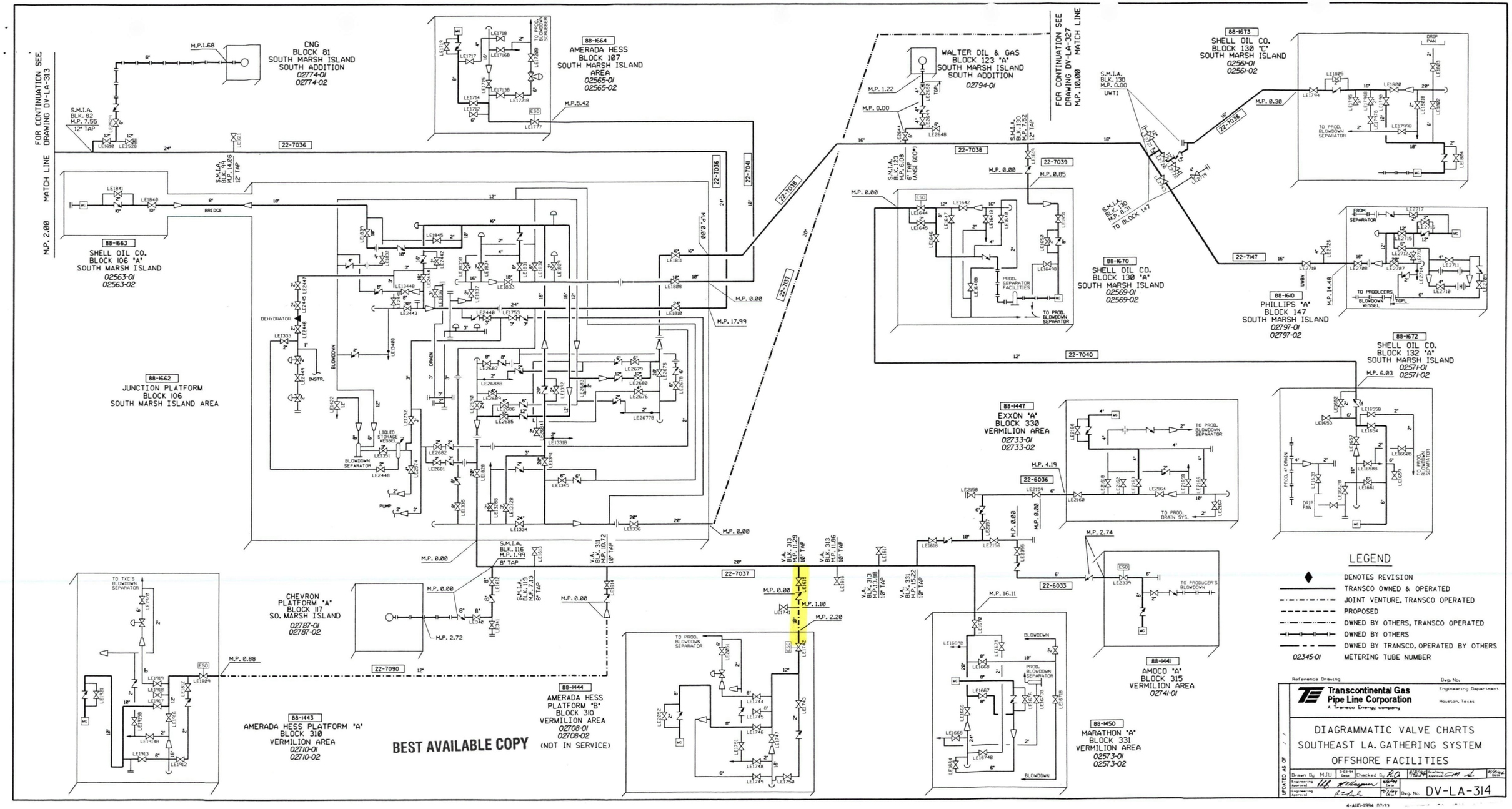
Transcontinental Gas Pipe Line Corporation — Engineering Department — Houston, Texas
A Subsidiary of Transco Companies Inc.

PROPOSED 12" NATURAL GAS PIPELINES
RIGHT OF WAY – GULF OF MEXICO
VERMILION AREA, SO. ADD., LOUISIANA

Drawn By RLS	Date 12-12-78	Approved By R.V.K	Date 12-15
Checked By R.V.K	Date 12-15-78		
Approved By Drafting JS	Date 12-15-78	Approved By	
W. O. No. 5285.08	Scale Shown	General Group & Dist. Number 22-12-7091	
	Sheet 2 of 4	Dwg. No. CE-A-001	

12-15-78
Date

11416
Number


FOR CONTINUATION SEE DRAWING DV-LA-313
MATCH LINE
M.P. 2.00
CNG
BLOCK 81
SOUTH MARSH ISLAND
SOUTH ADDITION
02774-01
02774-02
M.P.1.68
S.M.I.A. BLK. 82 M.P. 7.55 12" TAP
22-7036
88-1664
AMERADA HESS
BLOCK 107
SOUTH MARSH ISLAND
AREA
02565-01
02565-02
M.P.5.42
TO PROD. BLOWDOWN SEPARATOR
ESD
S.M.I.A. BLK. 88 M.P. 14.86 12" TAP
88-1663
SHELL OIL CO.
BLOCK 106 "A"
SOUTH MARSH ISLAND
02563-01
02563-02
BRIDGE
22-7035
22-7041
22-7038
M.P. 0.00
M.P. 17.99
88-1662
JUNCTION PLATFORM
BLOCK 106
SOUTH MARSH ISLAND AREA
DEHYDRATOR
INSTR
BLOWDOWN
DRAIN
LIQUID STORAGE VESSEL
BLOWDOWN SEPARATOR
PUMP
WALTER OIL & GAS
BLOCK 123 "A"
SOUTH MARSH ISLAND
SOUTH ADDITION
02794-01
M.P. 1.22
M.P. 0.00
TOPL
S.M.I.A. BLK. 123 M.P. 6.08 6" TAP (ANSI 600#)
S.M.I.A. BLK. 130 M.P. 7.52 12" TAP
22-7039
M.P. 0.85
PROD. SEPARATOR FACILITIES
TO PROD. BLOWDOWN SEPARATOR
FOR CONTINUATION SEE DRAWING DV-LA-327 M.P. 10.00 MATCH LINE
88-1673
SHELL OIL CO.
BLOCK 130 "C"
SOUTH MARSH ISLAND
02561-01
02561-02
S.M.I.A. BLK. 130 M.P. 0.00 UWTI
M.P. 0.30
DRIP PAN
TO PROD. BLOWDOWN SEPARATOR
S.M.I.A. BLK. 130 M.P. 0.31 TO BLOCK 147
88-1670
SHELL OIL CO.
BLOCK 130 "A"
SOUTH MARSH ISLAND
02569-01
02569-02
22-7147
FROM SEPARATOR
TO PRODUCERS BLOWDOWN VESSEL
88-1610
PHILLIPS "A"
BLOCK 147
SOUTH MARSH ISLAND
02797-01
02797-02
M.P. 14.48
22-7040
88-1672
SHELL OIL CO.
BLOCK 132 "A"
SOUTH MARSH ISLAND
02571-01
02571-02
M.P. 6.03
FROD. 4" DRAIN
TO PROD. BLOWDOWN SEPARATOR
88-1447
EXXON "A"
BLOCK 330
VERMILION AREA
02733-01
02733-02
M.P. 4.19
22-6036
TO PROD. BLOWDOWN SEPARATOR
TO PROD. DRAIN SYS.
M.P. 2.74
22-6033
TO PRODUCER'S BLOWDOWN
88-1441
AMOCO "A"
BLOCK 315
VERMILION AREA
02741-01
M.P. 16.11
BLOWDOWN
PROD. BLOWDOWN SEPARATOR
88-1450
MARATHON "A"
BLOCK 331
VERMILION AREA
02573-01
02573-02
V.A. BLK. 313 M.P. 11.29 10" TAP
V.A. BLK. 313 M.P. 11.86 10" TAP
V.A. BLK. 313 M.P.13.88 10" TAP
V.A. BLK. 312 M.P. 1.12 10" TAP
M.P. 1.18
M.P. 2.20
22-7037
S.M.I.A. BLK. 116 M.P. 1.99 8" TAP
V.A. BLK. 311 M.P. 10.72 10" TAP
CHEVRON PLATFORM "A" BLOCK 117 SO. MARSH ISLAND
02787-01
02787-02
M.P. 2.72
S.M.I.A. BLK. 119 M.P. 7.13 8" TAP
22-7090
TO TXC'S BLOWDOWN SEPARATOR
M.P. 0.88
88-1443
AMERADA HESS PLATFORM "A"
BLOCK 310
VERMILION AREA
02710-01
02710-02
88-1444
AMERADA HESS
PLATFORM "B"
BLOCK 310
VERMILION AREA
02708-01
02708-02
(NOT IN SERVICE)
BEST AVAILABLE COPY
LEGEND
DENOTES REVISION
TRANSCO OWNED & OPERATED
JOINT VENTURE, TRANSCO OPERATED
PROPOSED
OWNED BY OTHERS, TRANSCO OPERATED
OWNED BY OTHERS
OWNED BY TRANSCO, OPERATED BY OTHERS
02345-01 METERING TUBE NUMBER
Reference Drawing
Dwg. No.
Transcontinental Gas Pipe Line Corporation
A Transco Energy company
Engineering Department
Houston, Texas
DIAGRAMMATIC VALVE CHARTS
SOUTHEAST LA. GATHERING SYSTEM
OFFSHORE FACILITIES
UPDATED AS OF / /
Drawn By MJU 3-03-94 Date
Checked By RO
Engineering Approval 6/8/94 Date
Drafting Approval 6/8/94 Date
Engineering Approval 7/1/94 Date
Dwg. No. DV-LA-314
4-AUG-1994 07:33

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
HALE BOGGS FEDERAL BUILDING
500 CAMP STREET—SUITE 841
NEW ORLEANS, LA. 70130

IN REPLY REFER TO
OCS-G 4032

Vermilion Area,
South Addition

SN 5438

January 28, 1981

ACTION

Transcontinental Gas Pipe Line Corporation	:	Right of Way for Pipe Line
	:	Date of Permit: 8/8/79
	:	Decision Requesting Proof of Construction Dated:
	:	Proof of Construction Received: 12/29/80

Proof of Construction Accepted

The above-captioned permittee has submitted the evidence required by the law and regulations 43 CFR 3340.3(a). The proof of construction is hereby accepted and approved with minor deviations.

H. P. Sieverding
Acting Manager

cc: U. S. Geological Survey
(w/dwg. and reports)

NOTED - NEMECEK

JAN 30 1981

Transcontinental Gas
Pipe Line Corporation
A Subsidiary of Transco Companies Inc.

2700 South Post Oak Road
P. O. Box 1396
Houston, Texas 77001
713-871-8000

OCS-G 4032

December 23, 1980

Mr. John L. Rankin, Manager
New Orleans OCS Office
Bureau of Land Management
Hale Boggs Federal Building
500 Camp Street, Suite 841
New Orleans, LA 70130

Re: 12" Pipeline from TXC's "B" Platform
in Block 310 to Underwater Valve on
Transco's Existing 20" in Block 313
All Located within Vermilion Area
Line 2-110-5-1-6-3-2, R/W 1

Dear Mr. Rankin:

In compliance with the United States Department of Interior's Code of Federal Regulations, Title 43 Part 3300, subpart 3340.3 and appropriate guidelines, we are enclosing three (3) copies of as-built drawing No. 22-7091/DI-E4-001, together with three (3) copies of each of additional supporting information listed below, for the above captioned project:

Hydrostatic Test Procedure
Pressure and Temperature Charts
Hydrostatic Test Data Sheets

After your review, please issue Transcontinental your Decision of Proof of Construction Accepted.

Very truly yours,

Edward L. Wibner, Jr.

ELW:jl
Enclosures

Transcontinental Gas Pipe Line Corporation
A Transco Companies Inc
2700 South Post Oak Road
P O Box 1396
Houston Texas 77001

ARTICLE 5.00 PIPELINE SPECIFICATIONS (OFFSHORE)

5.10 Testing

5.101 Onshore - This shall include all work and equipment for hydrostatically testing the completed platform piping, riser assemblies, valve assembly(s) and meter station(s) onshore.

The hydrostatic testing shall be performed after the piping has been assembled. Blind flanges and welding caps shall be used to blank openings where required.

Only fesh clean water shall be used for the test. All air shall be evacuated from the piping and displaced with water.

The minimum test pressure will be stated in the Job Description. Pressure shall be determined by a dead weight tester and corrected as necessary for changes in water temperature. Test data shall be recorded on T.G.P.L. Form 1250. The test period shall be for a duration of four (4) hours. Only test data indicating no pressure drop during the test period will be acceptable. If the piping does not meet this test, repairs as necessary shall be made, and the test repeated until an acceptable test is made.

The piping and meter station shall be cleared of all water and purged with air to remove all moisture residue.

5.102 Offshore - This specification covers the testing of the completed pipeline. The pipeline shall be tested using the fluid set out in the Job Description, after completing the cleaning and trenching operations. Contractor may, with the approval of Company, test the pipe in sections or prior to cleaning and trenching. This test, however, shall not be an acceptance test.

The test pressure shall be held on the pipeline for 8 hours after pressure stabilization and shall be checked by means of a standard dead weight gauge, and the data recorded on T.G.P.L. Form 1250. No drop in pressure, after making corrections for changes in temperature and barometric pressure, shall be allowed.

If the pipeline does not meet this test, such steps as necessary shall be taken to cause the pipeline to meet the requirements of the above test.

Transcontinental Gas Pipe Line Corporation
A Transco Companies Inc
2700 South Post Oak Road
P O Box 1396
Houston Texas 77001

5.102 Offshore (Continued)

After a hydrostatic test has been accepted, the pipeline shall be freed of water by running as many cylinders or squeegees as deemed necessary, but not less than two. These may be propelled with gas or air. If Company cannot conveniently make gas available Contractor shall furnish air. The Company will handle the gas if it is used for dewatering.

When the platform piping and meter station(s) have been hydrostatically tested independent of the pipeline, the piping shall be drained of all water and thoroughly dried internally by use of compressed air.

TGPL-1310

Transcontinental Gas Pipe Lin[e C]orporation

A Subsidiary of Transco Companies Inc.

Qualification Test Record

Ref: DOT 192.501 and 192.719

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Account No. WO 528508	Contract No. (Prime)
Prime Contractor: J. Ray McDermott	Test Contractor: C.S.I. Inc.

Description and Location of Pipeline or Appurtenance Being Tested: 12" P/L Offshore La. Vermilion Blk 310 "B" Platform To Ver. Blk 313 U.W. Tap on 20" P/L.

LINE DATA

Description of Pipe	Length of Test Section	From (M.P. or Blk.)	To (M.P. or Blk.)	Survey Station No.
O.D. 12 W.T. .750 Yld.	11,632.96	310 VE	313 VE	From 0+00 To 11+632.96
O.D. W.T. Yld.	Test Section No.: I	Elevation of High Point: +15' MSL		Elevation of Low Point: -205' MSL
O.D. W.T. Yld.	Drawing Nos. (Alignment or Fabrication): CUN 22-7091 - Dwg. No. LC-0-12 R			
O.D. W.T. Yld.	Pipe Manufacturer			Purchase Order No.

TEST DATA

Type of Test	Date Fill Started	Date Fill Completed	Water Treatment	Avg. Temp. Water, Air or Gas Fill
Gas ☐ Air ☐ Water ☑	10/27/79	10/28/79	Chem. ☐ Filter ☐	80°F

General Weather Conditions: Clear + Cool

Location and Elevation Where Dead Weight Readings Taken: M.P. or Block Location: Blk 310 Ver. Riser; Elevation: +15' MSL

Minimum Test Pressure Specified: (High Point) 2650 PSI (92 % of Specified Min. Yield)

Maximum Allowable Test Pressure: (Low Point) 2711 PSI (94 % of Specified Min. Yield)

TEST WATER AND LEAK DATA

Fill Water	Source: Gulf of Mexico	Location: Vermilion Blk 310B	Survey Sta. 0+00	M.P. or Block VE. 310B
Test Water Disposal Point	Location:		Survey Sta 0+00	M.P. or Block VE. 310B
Leak or Test Failures During Test	Location:		Survey Sta.	M.P. or Block
Acidity (pH) of Fill Water	During Fill: NA		During Disposal: NA	
Chemicals Added to Fill Water	Type: Oxy Scav & Inhibitor		Quantity: 90 Part Per Million	

DEAD WEIGHT PRESSURE AND TEMPERATURE LOG

Date of Readings	Time of Readings	Pressure P.S.I.G.	Temperature of Ambient	Temperature of Ground	Temperature of Pipe	Remarks
10-28-79	0230	2710#	80°	NA	80°	Partly Cloudy
✓	0245	2710#	80°	✓	80°	✓ ✓
✓	0300	2710#	80°	✓	80°	✓ ✓
✓	0315	2710#	80°	✓	80°	✓ ✓
✓	0330	2697#	80°	✓	80°	Leaking Valve on Header
✓	0345	2696#	80°	✓	80°	Rains Started
✓	0400	2694#	80°	✓	80°	Raining
✓	0430	2692#	80°	✓	80°	✓
✓	0500	2688#	72°	✓	72°	✓
✓	0530	2685#	72°	✓	72°	✓
✓	0600	2681#	72°	✓	72°	Rains Stopped
✓	0630	2681#	72°	✓	72°	Partly Cloudy
✓	0700	2681#	74°	✓	74°	✓ ✓
✓	0730	2681#	74°	✓	74°	✓ ✓
✓	0800	2681#	74°	✓	74°	Clear
✓	0830	2680#	78°	✓	78°	✓
✓	0900	2680#	81°	✓	81°	✓
✓	0930	2680#	81°	✓	81°	✓
✓	1000	2680#	81°	✓	81°	✓
✓	1030	2680#	81°	✓	81°	✓
✓	1100	2680#	81°	✓	81°	Test Completed

Report Prepared By: Mark Majors [signature] Date: 10/28/79 Test Supervised By: Mark Majors [signature]

Test Witnessed By: (1) Albert A. [illegible] CSI (2) Ezra Pearl [illegible] CSI

Test Accepted By: [signature] Date: 11/18/79 Hour

C.S.I. HYDROSTATIC TESTERS

Hydrostatic Test Report

P. O. BOX 51282, O.C.S. LAFAYETTE, LA. 70505

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Company TRANSCO

Line BLK 310 TO 313 Location VERMILION Job No. 11632 Length 11637.96 ft.

Line Size 12" O.D. ____ W.T. Gr. .750 Sta/M.P. 0+00 to Sta/M.P. 11+632.96

Terrain WATER Soil Condition 2.10 MILES

Fill began 04:00 A.M. P.M. at 7:00 A.M. P.M. Fill Completed ____ at ____ A.M. P.M.

Meter Reading: Beginning ____ Gals., Final ____ Gal.

Displacement: Theoretical ____ Gal., Meas. ____ Gal.

Gallons Required to increase pressure from ____ P.S.I.G. to ____ P.S.I.G. ____ Gal.
PRESSURE PUMP MEASUREMENT

Exposed pipe 10' ft. General Contractor ____

Fill water Temperature

TIME		Deadweight Pressure	TEMPERATURE OF			REMARKS
Date	Hour		Air	Pipe	Remote Earth	
10/28/79	2:30	2710	80°	80°		
	2:45	2710	80°	80°		
AM.	3:00	2710	80°	80°		
	3:15	2710	80°	80°		
	3:30	2797	90°	80°		
	3:45	2696	80°	80°		
	4:00	2694	80°	80°		
	4:30	2693	72°	72°		
	5:00	2689	72°	72°		
	5:30	2685	72°	72°		
	6:00	2681	72°	72°		
	6:30	2681	72°	72°		
	7:00	2681	74°	74°		
	7:30	2681	74°	74°		
	8:00	2681	74°	74°		
	8:30	2680	78°	78°		
	9:00	2680	81°	81°		
	9:30	2680	81°	81°		
	10:00	2680	81°	81°		
	10:30	2680	81°	81°		
	11:00	2680	81°	81°		

RECEIVED
DEC 29 12 14 PM '80
BUR OF LAND MGMT.
OUTER CONTINENTAL
SHELF OFFICE
NEW ORLEANS, LA.

CSI Engineer Geo Perrodo

Witness 1 Danny Smith

2 Albert Allard

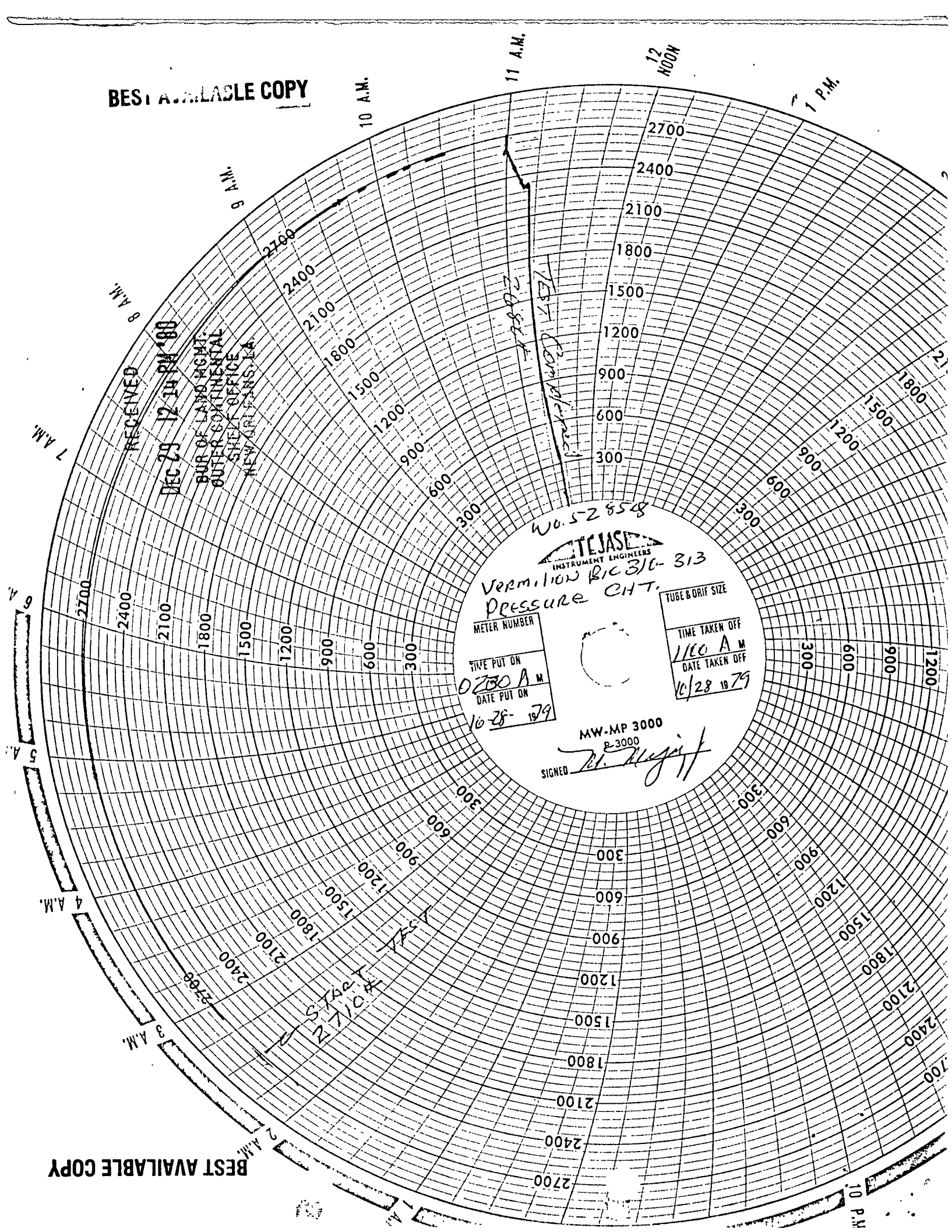
Field Approval for Pipeline Company

Insp. Mark Miguez

Chief Insp. ____

MARK MIGUEZ SR.

Page ____ of ____



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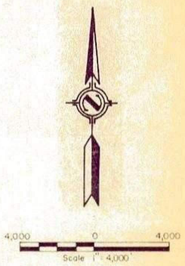
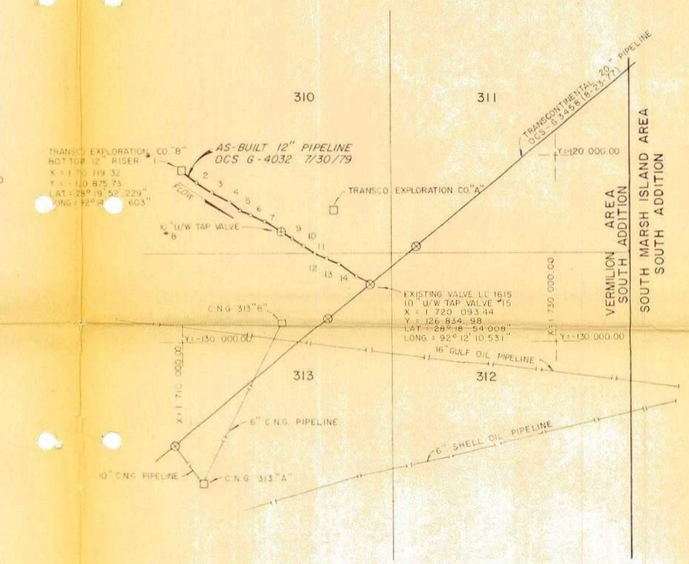
VERMILION AREA

SOUTH ADDITION





NOTES:

1. BEARINGS, COORDINATES AND DISTANCES ARE BASED ON LOUISIANA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.
2. THIS MAP REFLECTS THE AS-BUILT COORDINATE LOCATION OF THE ABOVE DEPICTED PIPELINE AS DETERMINED BY TRIANGULATION. THE GEOGRAPHIC LOCATION OF THIS PIPELINE IS SEAWARD OF THE TWO HUNDRED (200) FOOT CONTOUR LINE AND WAS INSTALLED ON THE GULF FLOOR, EXCEPTING THE VALVE WHICH HAS THE MINIMUM COVER OF ONE FOOT BELOW THE UNDISTURBED GULF FLOOR IN KEEPING WITH DECISION NUMBER O.C.S. G-4032, DATED JULY 30, 1979. THIS PIPELINE HAS BEEN DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT OF TRANSPORTATION PART 192; TITLE 49.

STATE OF LOUISIANA
RUSSELL T. HIGAH
REG. No. 11416
REGISTERED PROFESSIONAL ENGINEER
IN
PETROLEUM & INDUSTRIAL ENGINEERING

7 APR '80
DATE

R. J. Higah
11416
NUMBER

AS-BUILT 12" FROM BLOCK 310 TO BLOCK 313 VERMILION AREA, SOUTH ADDITION

POINT NO.	"X"	"Y"	REMARKS
1	1 710 119.32	- 120 875.73	BOTTOM RISER AT BLOCK 310"B"
2	1 710 603.99	- 121 326.11	PIPELINE
3	1 711 674.07	- 121 876.67	PIPELINE
4	1 712 531.10	- 122 394.66	PIPELINE
5	1 713 124.40	- 122 743.32	PIPELINE
6	1 713 684.01	- 123 066.26	PIPELINE
7	1 714 408.79	- 123 424.58	PIPELINE
8	1 715 318.26	- 123 958.42	10" UNDERWATER TAP VALVE
9	1 715 954.11	- 124 321.38	PIPELINE
10	1 716 525.86	- 124 702.94	PIPELINE
11	1 717 125.33	- 125 102.98	PIPELINE
12	1 717 760.87	- 125 444.64	PIPELINE
13	1 718 379.38	- 125 771.11	PIPELINE
14	1 719 397.63	- 126 344.10	EXIST. VALVE NO. LC 1615 (BLK 313)

TOTAL FOOTAGE 12" PIPE INSTALLED = 11,710.10 FEET = 2.218 MILES FROM RISER IN BLOCK 310 TO UNDER-WATER TAP VALVE ON TRANSCONTINENTAL 20" PIPELINE IN BLOCK 313.

Reference Drawing Seq. 5438 Dwg. No.

Transcontinental Gas Pipe Line Corporation
A Subsidiary of Transco Companies Inc.
Engineering Department
Houston, Texas

AS-BUILT 12" NATURAL GAS PIPELINE
200 FOOT RIGHT OF WAY
FROM BLOCK 310 TO BLOCK 313
VERMILION AREA, SOUTH ADDITION
GULF OF MEXICO

Drawn By G.P.W.	Date 3-31-80	Approved By	Date
Checked By R.V.K.	Date 4-2-80	Approved By W. Ingram	Engineer
Approved By Drafting S	Date 4-2-80		
W.O. No. 5285 08	Scale AS SHOWN	General Group & Gen Number 22 - 7091	
	Sheet of	Dwg. No. DI-E4-001	

No. | Date | Revision | By

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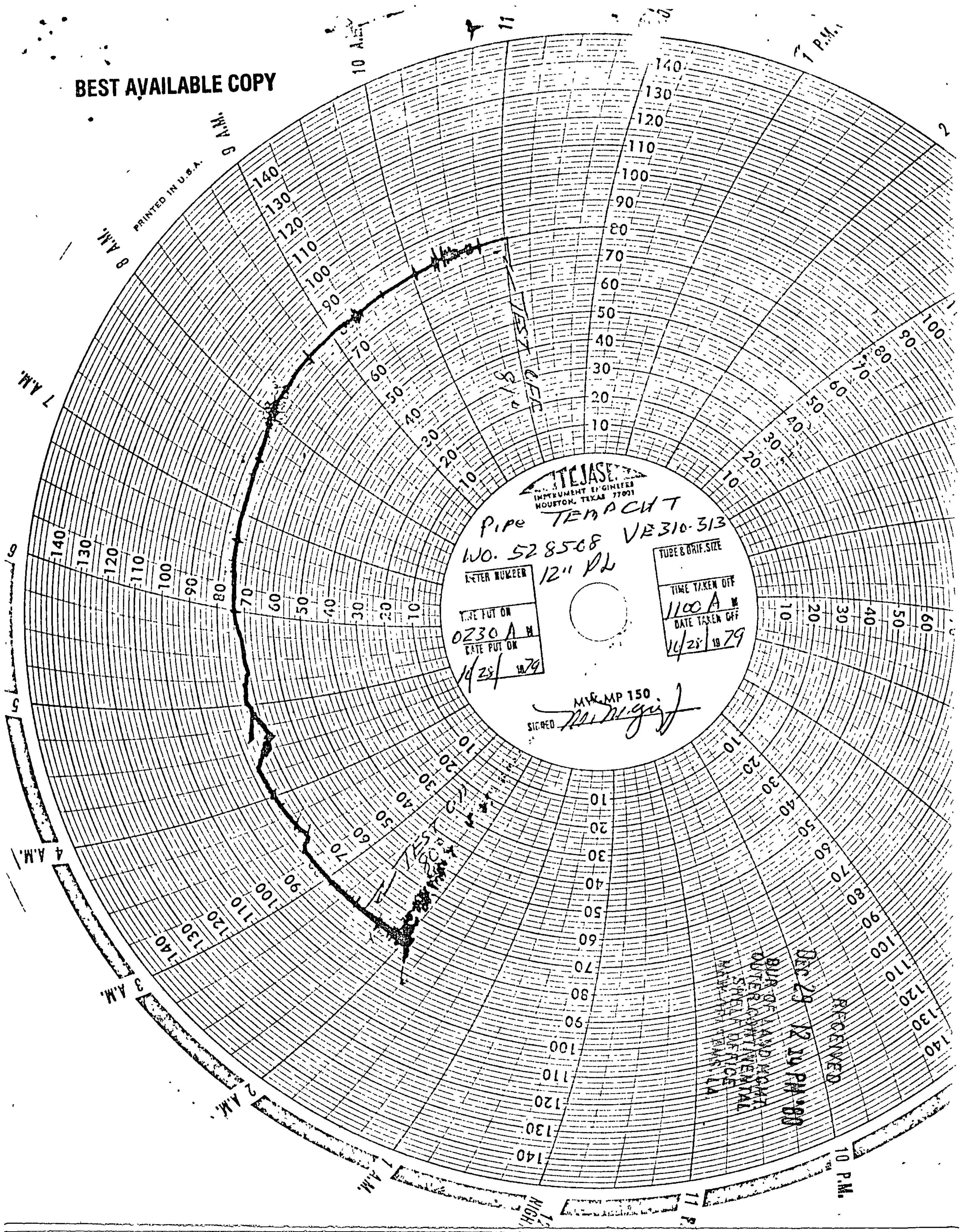

Transcontinental Gas Pipe Line Corporation

A Subsidiary of Transco Companies Inc.

2700 South Post Oak Road
P. O. Box 1396
Houston, Texas 77001
713-871-8000

OCS-G 4032

NEW ORLEANS OCS
FILE CODE
ROUTE INITIAL
MGR.
ASST. MGR.
DEC 29 1980
P. LEGAL
PAO
EAD
OPS
STUDIES
MGMT. SER.

December 23, 1980

Mr. John L. Rankin, Manager
New Orleans OCS Office
Bureau of Land Management
Hale Boggs Federal Building
500 Camp Street, Suite 841
New Orleans, LA 70130

Re: 12" Pipeline from TXC's "B" Platform
in Block 310 to Underwater Valve on
Transco's Existing 20" in Block 313
All Located within Vermilion Area
Line 2-110-5-1-6-3-2, R/W 1

Dear Mr. Rankin:

In compliance with the United States Department of Interior's Code of Federal Regulations, Title 43 Part 3300, subpart 3340.3 and appropriate guidelines, we are enclosing three (3) copies of as-built drawing No. 22-7091/DI-E4-001, together with three (3) copies of each of additional supporting information listed below, for the above captioned project:

Hydrostatic Test Procedure
Pressure and Temperature Charts
Hydrostatic Test Data Sheets

After your review, please issue Transcontinental your Decision of Proof of Construction Accepted.

Very truly yours,

Edward L. Wibner, Jr.

ELW:jl
Enclosures

DEC 29 12 13 PM '80
BUR OF LAND MGMT
OUTER CONTINENTAL
HALE BOGGS FED BLDG
NEW ORLEANS LA

1/8/81

64032 Transcontinental Gas Pipe Line Corporation
"As-Built"

11710.10 ft
5280 ft
2.2178 T

2.22 miles

① Total distance of the "As-Built" P/L is 2.22 miles.

② Blocks - Vermilion Area, South Addition Blocks 310 & 313.

③ Only minor deviation in the P/L ROW

William Overstreet

12-30-80

OCS-G 4032 — TRANSCONTINENTAL GAS PIPE LINE CORP.
"AS-BUILT — HYDROSTATIC TEST DATA"

The hydrostatic test data was reviewed and found to be in compliance with the requirements of the decision. Approval of this data is recommended.

Audrey J Booth

CNG PRODUCING COMPANY
1800 BANK OF NEW ORLEANS BUILDING
1010 COMMON STREET
NEW ORLEANS, LA.
70112
504·523·5581

August 23, 1979

G 4032

Mr. John L. Rankin,
Manager, Bureau of Land Management
The Outer Continental Shelf Office
Hale Boggs Federal Building - Suite 841
500 Camp Street
New Orleans, Louisiana 70130

Re: Transco's Application For Proposed 12" Pipeline, Block 310 to 313, Vermilion Area, Offshore, Louisiana, Gulf of Mexico

Dear Mr. Rankin:

Please be advised that CNG Producing Company has no objection to Transco's laying of the proposed pipeline.

Enclosed for your files is Transco's approval to conditions set forth in CNG's letter of June 26, 1979, in regards to the subject pipeline installation.

Very truly yours,

CNG PRODUCING COMPANY

Francis L. Green

Francis L. Green,
Development Engineer

Enclosure

NOTIFICATION OF CONSTRUCTION:

Company representative furnishing the following information Felix McHugh

Telephone Number (504) 446-8843 Date 9-7-79

1. OCS Number G 4032
2. Name of Company Transcontinental Gas P/L Corp.
3. Name of Contractor J. Ray McDermott
4. Name of lay barge #29
5. Size of Pipeline 12" GAS 2.10 miles long
6. From where to where Transco Exploration Cab "B" Platform in Block 310 to existing underwater tap on Transcontinental 20" P/L in Block 313 all located in Vermilion area.
7. Where construction begins and ends (i.e., which platform) Transco Exploration "B" platform in Block 310 Vermilion to Subsea tie in block 313 Vermilion.
8. Method of laying Conventional
9. How long barge will be on job 12 to 15 days
10. Where heliports are available On Barge
11. Does the pipeline cross safety fairway(s)? (Go to map for information) NO.

    Where _____

    Initial and teminal points: Initial: X = _____ Y = _____

    Terminal: X = _____ Y = _____

12. When the barge will begin (date) 9-11-79

Notify: Frank Torres, U. S. Geological Survey, 837-4720, Ext. 237 (Give him items 1 10 & 12)). Date Contacted N/A

Notify only if construction crosses or in close proximity of fairways Chief O'Neil, Petty Officer Lutali, or Chief Flannegan, U. S. Coast Guard, telephone #6236 (upstairs). Give items 1 - 9 & 11 - 12. Date Contacted N/A

Items 1, 2, 5, 6, and 11 can be determined from the file if the company representative doesn't know them. Item 11 should be determined on a map in this office (see Bill Overstreet).

BLM Employee Stanley J. Butler 9-7-79

NOTIFICATION OF HYDROSTATIC TEST:

Company representative furnishing following information Felix McHugh

Telephone Number (504) 446-8841 Date 10-19-79

1. OCS Number G 4032
2. Name of Company TRANSCONTINENTAL GAS PIPELINE CORP.
3. Size of Pipeline 12-INCH GAS 2.21 miles long
4. From where to where Transco Exploration Co. "B" Platform in Block 310 Vermilion Area to subsea tie with Transcontinental Gas P/L Corp & 20". P/L in Vermilion 313.
5. Platform where hydrostatic test instruments will be set up "B"

   Platform in Block 310 Vermilion Area
6. Date and time they plan to start 10-20-79
7. Contractor ; McDermott (SEALEVEL 12)

Notify: Frank Torres, U.S. Geological Survey, 837-4720, Ext. 237, or leave a message for him. N/A

BLM Employee: [signature] 10-19-79

OCS-G 4032

E_1 - IP@MYS $= \frac{2St}{D}$

(a) $= \frac{2 \times 42000 \times .438}{12.750} = 2886$

(b) $= \frac{2 \times 35000 \times .562}{12.750} = 3086$

(c) $= \frac{2 \times 35000 \times .688}{12.750} = 3777$

Tap Assy:

(a) $= \frac{2 \times 35000 \times .500}{10.75} = 3256$

(b) $= \frac{2 \times 35000 \times .438}{10.75} = 2852$

E_2 — MAP $= .72$ (IP@MYS)

(a) $= 2078$ PSIG
(b) $= 2222$ PSIG
(c) $= 2720$ PSIG

TAP ASSY:

(a) $= 1954$ PSIG
(b) $= 1711$ PSIG

OCS-G 4032

E 11 C

$$SG = \frac{RC}{R} + \frac{K_2}{(T-K_1)^2}\left(\frac{W+P}{K_3} - \frac{RC}{R}\right)$$

$K_1 = -6.88$
$K_2 = 47.27$
$K_3 = 66.00$
$P = 19.51$ lbm.
$T = 1''$

(A) $SG = \frac{140}{64} + \frac{47.27}{[1-(-6.88)]^2}\left(\frac{57.53+19.51}{66.00} - \frac{140}{64}\right)$

$SG = 2.1875 + \frac{47.27}{62.09}\left(\frac{77.04}{66.00} - 2.1875\right)$

$SG = 2.1875 + .7613(1.1673 - 2.1875)$
$SG = 2.1875 + .7613(-1.0202)$
$SG = 2.1875 - .7767$
$SG = 1.41$

(B) $SG = 2.1875 + .7613\left(\frac{73.22+19.51}{66.00} - 2.1875\right)$

$SG = 2.1875 + .7613(1.405 - 2.1875)$
$SG = 2.1875 + .7613(-.7825)$
$SG = 2.1875 - .5957$
$SG = 1.59$

(C) $SG = 2.1875 + .7613\left(\frac{88.57+19.51}{66.00} - 2.1875\right)$
$SG = 2.1875 + .7613(1.6376 - 2.1875)$
$SG = 2.1875 - .4186$
$SG = 1.77$

SN 5438

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OCS-G 4032

Vermilion Area

July 30, 1979

Transcontinental Gas Pipe Line Corporation

Right-of-Way

ACTION - APPLICATION APPROVED

Your application for a 12" pipeline Block 310 to 313, Vermilion Area, Offshore Louisiana, Gulf of Mexico Line 2-110-5-1-6-3-2, dated April 18, 1979, with its attachments is approved with the following additions and corrections:

1. The ANSI 600 valves, flanges and fittings should not be subjected to a body test greater than 2,175 psig, and a test-pressure differential greater than 1,440 psig.

2. Hydrostatic test data will be furnished this office within ninety (90) days following the test.

3. An as-built map will be provided within ninety (90) days after completion of construction, in accordance with the guidelines dated February 13, 1978.

The permittee agrees that if any site, structure, or object of historical or archaeological significance should be discovered during the conduct of any operations within the permitted right-of-way, he shall report immediately such findings to the Manager, New Orleans OCS Office, and make every reasonable effort to preserve and protect the cultural resource from damage until the Manager, New Orleans OCS Office, has given directions as to its preservation.

Permittee agrees to comply with all regulations and conditions as may be prescribed by the Secretary of the Interior, or the Secretary of Transportation including, pursuant to section 21(b) of the OCS Lands Act, as amended, provisions to assure maximum environmental protection by utilization of the best available and safest technologies, including the safest practices for pipeline burial. This agreement includes but is not limited to complying with the following stipulations:

1. Permittee shall transport or purchase without discrimination oil or natural gas produced from submerged lands or outer Continental Shelf lands in the vicinity of its pipeline in such proportionate amounts as the Federal Energy Regulatory Commission, in consultation with the Secretary of Energy, may, after a full hearing with due notice

thereof to the interested parties, determine to be reasonable, taking into account, among other things, conservation and the prevention of waste.

2. Permittee shall operate its pipeline in accordance with the competitive principles set out in section 5(f)(1) of the Outer Continental Shelf Lands Act, as amended, except insofar as the Federal Energy Regulatory Commission may, by order or regulation, exempt such pipeline from any or all of the requirements of section 5(f)(1) pursuant to section 5(f)(2) (which permits such exemption of any pipeline or class of pipelines which feeds into a facility where oil and gas are first collected or a facility where oil and gas are first separated, dehydrated, or otherwise processed).

3. Unless so exempted by Federal Energy Regulatory Commission order or regulation, permittee shall operate its pipeline so as to provide open and nondiscriminatory access to both owner and nonowner shippers, and permittee shall comply with any specific conditions which the Secretary of Energy and the Federal Energy Regulatory Commission may require, after consultation with and due consideration given to the views of the Attorney General, to ensure that its pipeline is operated in accordance with the competitive principles set forth in section 5(f)(1).

John L. Rankin, Manager
Date: August 8, 1979

Transcontinental Gas Pipe Line Corporation hereby agrees to be bound by the foregoing.

Lawrence H. Gall V.P.
Vice President

Date: Aug. 6, 1979

cc: Geological Survey, USDI
Office of Pipeline Safety Operations, USDT

United States Department of the Interior

GEOLOGICAL SURVEY

OFFICE BLDG. 3301 N CAUSEWAY BLVD
P. O. BOX 7944
METAIRIE, LOUISIANA 70010

TEL (504) 837-4720

In Reply Refer To: OS-5

Memorandum

To: Manager, Bureau of Land Management, 841 Hale Boggs Federal Building, 500 Camp Street, New Orleans, Louisiana 70130

From: Conservation Manager, Gulf of Mexico Region

Subject: Transcontinental Gas Pipe Line Corporation's Pipeline Right-of-Way Application, BLM OCS-G 4032, Reference 2883(210)

We have reviewed the safety features and design specifications for the subject Right-of-Way Application, dated April 18, 1979, in accordance with the MOU dated August 1, 1974. It is for the construction, maintenance, and operation of a 12 3/4-inch gas and gas condensate pipeline 11,683 feet in length from Transcontinental's Platform "B", Vermilion Block 310, lease OCS-G 3400 to a subsea tie-in with Transcontinental's 20-inch pipeline, Vermilion Block 313, lease OCS-G 1172.

Based upon information submitted in the application, the design characteristics of this pipeline are calculated to be as follows:

Pipeline Component	Maximum Allowable Operating Pressure/WP Ratings
Submerged component	2,078 psig
Riser component	1,889 psig
Valves, flanges, fittings	1,440 psig

The maximum allowable operating pressure of the proposed 10 3/4-inch underwater tap valve assembly was calculated to be 2,054 psig.

The hydrostatic pressure test with water will be at 2,654-2,711 psig for eight hours. The ANSI 600 valves should not be subjected to a test-pressure differential greater than 1,440 psig. The ANSI 600 valves, flanges, and fittings should not be subjected to a body test greater than 2,175 psig.

Based on these calculations and a maximum allowable operating pressure (MAOP) of 1,440 psig of the receiving 20-inch Transcontinental Gas Pipe

Line Corporation's pipeline (BLM OCS-G 3458), we recommend that the MAOP for this pipeline be 1,440 psig and that this pressure may be exceeded only when hydrostatically pressure-testing the pipeline. We also recommend that valves and taps at the underwater tap valve assembly and at the underwater tie-in assembly be provided with a minimum of three feet of cover, either through burial or with sandbags.

The technical aspects of the proposed pipeline are acceptable in accordance with appropriate regulations and standards.

We would appreciate receiving a copy of the plat showing the location of the pipeline as installed.

Lowell S. Hammons
Acting Conservation Manager

Transcontinental Gas Pipe Line Corporation

A Subsidiary of Transco Companies Inc.

2700 South Post Oak Road
P. O Box 1396
Houston, Texas 77001
713-871-8000

April 18, 1979

Mr. John L. Rankin, Manager
New Orleans OCS Office
Bureau of Land Management
Hale Boggs Federal Building
500 Camp Street, Suite 841
New Orleans, Louisiana 70130

Re: Application for Proposed 12" Pipeline
Block 310 to 313 Vermilion Area
Offshore Louisiana, Gulf of Mexico
Line 2-110-5-1-6-3-2

Dear Mr. Rankin:

Pursuant to the authority granted in Section 5 (c) of the Outer Continental Shelf Lands Act of August 7, 1953 (67 Stat. 464), and in compliance with the regulations contained in Title 43 CFR 2883, Transcontinental Gas Pipe Line Corporation hereby applies, in duplicate, for a right-of-way two hundred feet (200 ft.) in width to construct, maintain and operate a natural gas pipeline as shown on the following drawings.

Hazard and Block Survey Reports

Vicinity, Route, Profile and Cathodic Protection Drawing
Drawing Number 22-12-7091/DI-A-001, Sheets 1, 2, 3 and 4 of 4.

Schematic Drawing
Drawing Number 22-12-7091/DI-A-002

The 12" pipeline will be used to transport natural gas and condensate from the existing Transco Exploration Company's "B" platform in Block 310 Vermilion Area to an existing under water valve assembly on Transcontinental's existing 20" pipeline in Block 313 Vermilion Area, Gulf of Mexico.

NEW ORLEANS
FILE CODE
ROUTE
MGR.
ASST. MGR.
APR 26 19
P. LEGAL
PAO
E/D
OPS
STUDIES
MGMT. SER.

In accordance with applicable regulations, the applicant agrees it will mail to each ~~lessee or~~ right-of-way holder whose lease or right-of-way is affected by this application, ~~by~~ registered mail, return receipt requested, a copy of the application and the ~~maps attached~~ hereto. A list of such lessees and right-of-way holders is attached and ~~copies of~~ the return receipts showing service upon such lessees and right-of-way holders will be forwarded to your office when received.

As set forth in the February 13, 1978 guidelines, the applicant agrees to the following:

OFFICE COPY

1. The pipeline will not be buried because the water depth exceeds two hundred (200) feet the entire route.

2. The proposed pipeline will cross no existing pipelines.

3. All valves and fittings will be buried to a minimum of one (1) foot below the mud line.

4. Sensing devices and fail close valves will be installed as shown on the enclosed Schematic Drawing.

5. Three (3) copies of a Hazard Survey Report prepared for Transcontinental for the installation of its existing 20" pipeline between Block 106 South Marsh Island Area and Block 331 Vermilion Area are enclosed. The proposed 12" pipeline will connect with this existing 20" pipeline.

   Three copies of the Engineering Block Survey Report prepared for Transco Exploration Company to aid with their development of Block 310 are also enclosed.

   The route of the proposed 12" pipeline has been superimposed upon Figure 2 on page 9 of the Block Survey Report. Also depicted thereon you will find the route of an additional pipeline for which we will make application in the near future.

   The unidentified anomilies addressed in the Reports are not located in the area of this proposed construction.

6. All changes, additions or deletions to any equipment on the pipeline will be made only after first securing the expressed written approval of your office.

7. Your office will be notified at least five (5) days prior to commencing construction and will be advised of construction date, approximate starting time, starting point, name of contractor and barge, availability of heliport facilities and approximate completion date.

8. Your office will be notified forty eight (48) hours in advance of the hydrostatic test and will be advised of the location of the pressure recorder and approximate starting time of the test. Hydrostatic test data, including procedure, hold time and results will be furnished your office within one hundred eighty (180) days following the test.

9. Within one hundred eighty (180) days after completion of construction, applicant will provide an as-built map establishing the location of the completed pipeline within an accuracy of +/- 100 feet, prepared in accordance with the requirements for the map depicting the proposed route reflecting the

total length of the line (all in feet) and depicting those points, if any, at which the pipeline is located outside of the right of way.

10. Any break, leak, failure or accident will be reported within twelve (12) hours after such occurrence as provided for in said guidelines.

Additional design criteria data is as follows:

1. The length of the line between the riser and underwater tap valve will be 11,683 feet or 2.21 miles.

2. The line pipe will be:

   12.750" O.D. x .438" W.T., API 5L Gr. X-42, 57.53 lbs/ft.

   12.750" O.D. x .562" W.T., API 5L Gr. B, 73.22 lbs/ft.

   12.750" O.D. x .688" W.T., ASTM A-106 Gr. B, 88.57 lbs/ft.

3. The riser piping at the platform will be:

   12.750" O.D. x .688" W. T., ASTM A-106 Gr. B, 88.57 Lbs/ft.

   Underwater Tie-in Assembly in Block 313
   10.750" O.D. x .500" W.T., ASTM A-106 Gr. B, 54.74 lbs/ft.

   10.750" O.D. x .438" W.T., ASTM A-106 Gr. B, 48.19 lb/ft.

4. The products to be transported by the pipeline are natural gas and condensate.

5. The water depth ranges from 202 feet at the existing Transco Exploration Block 310 "B" Vermilion Area platform to 208 feet at the existing Transcontinental 20" pipeline in Block 313 Vermilion Area.

6. The cathodic protection system will be Galvalum II bracelet anodes as described on Dwg. 22-12-7091/DI-A-001, Sheet 4 of 4.

7. The products to be transported are sweet natural gas and condensate, neither of which is corrosive to carbon steel pipe interior. However, the analysis of the transported product will be monitored and preventive measures such as pigging and/or inhibiting will be employed as necessary.

8. Protective coatings used on the underwater line pipe are 1/2" mastic and 1" thick, 140 lbs/ft^3 concrete.

9. The bulk specific gravity of the empty pipe in seawater is:

Pipe Size	S. G.
12.750" x .688" W.T.	1.72
12.750" x .562" W.T.	1.53
12.750" x .438" W.T.	1.33

10. The anticipated specific gravity of the natural gas is 0.60 and the condensate is 0.72.

11. The design working pressure of the system is as follows:

Maximum Allowable Operating Pressure based on valves and flanges will be 1440 psig (maximum working pressure of ANSI 600# valves and flanges).

Maximum Allowable Operating Pressure based on line pipe will be:

$$MAOP = \frac{2\ St}{D} \times F \times E \times T$$

$$MAOP = \frac{2(35,000) \times .688}{12.750"} \times 0.72 \times 1.0 \times 1.0 = 2719 \text{ psig}$$

$$MAOP = \frac{2(35,000) \times .562}{12.750"} \times 0.72 \times 1.0 \times 1.0 = 2221 \text{ psig}$$

$$MAOP = \frac{2(42,000) \times .438}{12.750"} \times 0.72 \times 1.0 \times 1.0 = 2077 \text{ psig}$$

Maximum Allowable Operating Pressure based on the riser piping will be:

$$MAOP = \frac{2(35,000) \times .688}{12.750"} \times 0.5 \times 1.0 \times 1.0 = 1888 \text{ psig}$$

Maximum Allowable Operating Pressure based on underwater tie-in assembly is:

$$MAOP = \frac{2(35,000) \times .438}{10.750} \times .60 \times 1.0 \times 1.0 = 1711 \text{ psig}$$

$$MAOP = \frac{2(35,000) \times .500}{10.750} \times .60 \times 1.0 \times 1.0 = 1953 \text{ psig}$$

Therefore, the Maximum Allowable Operating Pressure of the system will be 1440 psig.

12. The anticipated operating pressures are estimated to range from 500 psig to 1440 psig.

13. The design capacity of the line is 40 MMCFD based inlet pressure of 1024 psig and outlet pressure of 1020 psig.

14. The pipeline will be hydrostatically tested to a minimum pressure of 2654 psig not exceeding a maximum pressure of 2711 psig and held for 8 hours.

15. The design burial depth is shown on Drawing No. 22-12-7091/DI-A-001, sheet 3 of 4.

16. The platform riser below water will be coated with 3 mils (dry) of inorganic Zinc-rich primer, and then flake glass-filled epoxy phenolic for a total dry film thickness of 24 to 40 mils.

    The piping above water will be coated with 3 mils (dry) inorganic Zinc-rich primer and then Hi-Build catalyzed epoxy for a total dry film thickness of 15 mils.

17. All piping, fittings, risers and components of the pipeline are designed in compliance with 49 CFR 192.

18. Construction information:

Estimated Starting Date:	September 1, 1979
Method of Construction:	Lay Barge
Method of Burial:	Jet Bury Barge
Estimated time required to lay and bury pipe:	2 weeks
Estimated time to complete project:	4 weeks

19. Company Contact:

    Paul E. Newton, Senior Permit Engineer
    Transcontinental Gas Pipe Line Corporation
    P. O. Box 1396
    Houston, Texas 77001
    Telephone (713) 871-2533

Enclosed are three copies each of the maps and drawings referred to above, prepared and certified in accordance with applicable guidelines. Also enclosed is an engineering data attachment of three pages.

A certified copy of the articles of incorporation and a certificate of the Assistant Secretary, under seal, certifying that the corporate officer executing the application has the authority to do so have already been submitted to your office. These documents have been placed on record in a file identified as New Orleans Miscellaneous File No. 011. A filing fee of $10.00, together with first year's rental of $15.00 computed on 2.21 miles of right-of-way, is enclosed.

Also enclosed please find a Nondiscrimination in Employment statement executed by a Vice President of Transcontinental Gas Pipe Line Corporation.

If the above and attached information meets with your approval, we would appreciate your issuing the necessary right-of-way at your earliest convenience. Inquiries concerning this application may be directed to the applicant at P. O. Box 1396, Houston, Texas 77001.

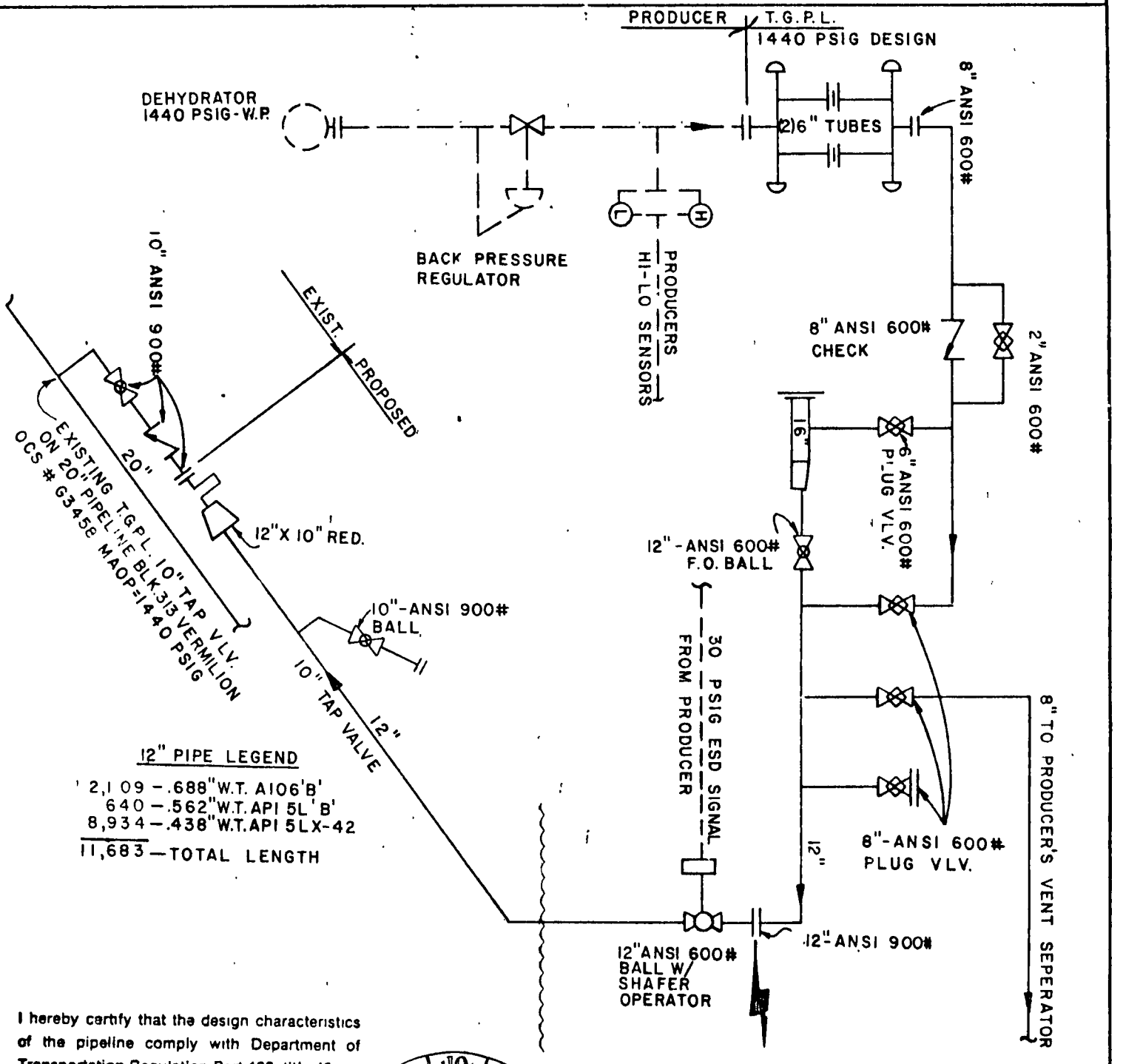
Very truly yours,

TRANSCONTINENTAL GAS PIPE LINE
CORPORATION

By _____
Vice President

Enclosures

BEST AVAILABLE COPY



12" PIPE LEGEND

2,109 – .688" W.T. A106 'B'
640 – .562" W.T. API 5L 'B'
8,934 – .438" W.T. API 5LX-42
11,683 – TOTAL LENGTH

I hereby certify that the design characteristics of the pipeline comply with Department of Transportation Regulation Part 192, title 49

STATE OF TEXAS
P. T. PRIESMEYER
9001
REGISTERED
PROFESSIONAL ENGINEER

P.T. Priesmeyer
Date 3-16-79

9001
Number

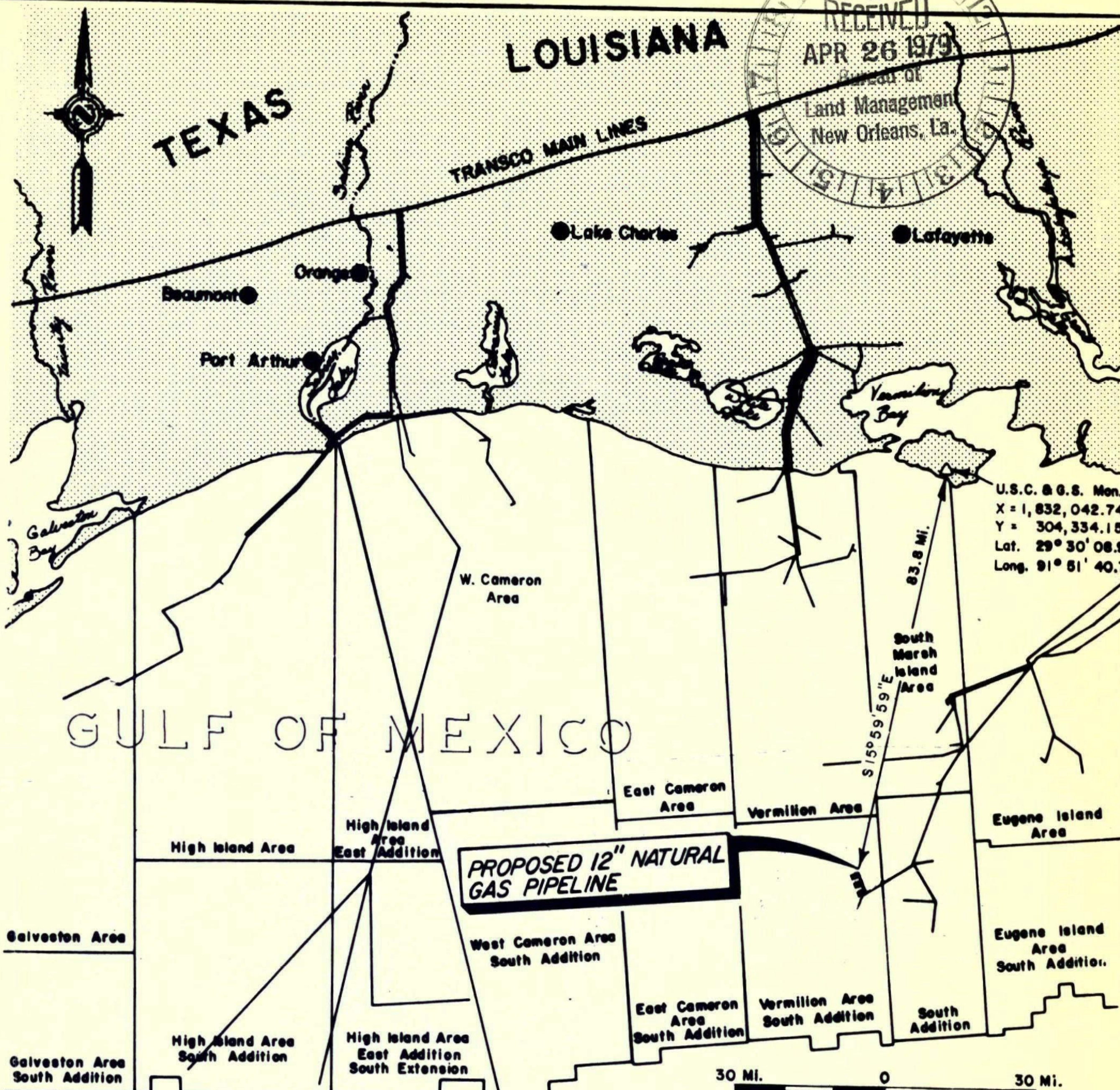
RECEIVED
APR 26 1979
Bureau of
Land Management
New Orleans, La.

Transcontinental Gas Pipe Line Corporation Engineering Department Houston, Texas
A Subsidiary of Transco Companies Inc.

SCHEMATIC FLOW DIAGRAM
PROPOSED T.G.P.L. 12" PIPELINE
TXC PLATFORM "B", BLK. 310 TO
U.W. TAP VLV., BLK. 313 VERMILION AREA

Drawn By K Johnston	Date 3-13-79	Approved By	Date 3-16-79
Checked By	Date 3-14-79	Paul T. Priesmeyer Approved By Engineer	
Approved By Drafting C.W.W.	Date 3-16-79		
W. O. No. 5285.08	Scale N.T.S	General Group & Gun Number	22-12-7091
	Sheet 1 of 1	Dwg. No.	D1-A-002

Revision: No. | Date | By



I hereby certify that the design of the Pipeline complies with Department of transportation Regulation Part 192, Title 49, and that this map accurately reflects the center line of the proposed Pipeline right-of-way.

STATE OF LOUISIANA
RUSSELL J. JUDAH
REG. No. 11416
REGISTERED
PROFESSIONAL ENGINEER
IN
PETROLEUM/INDUSTRIAL ENGINEERING

R. J. Judah

3-27-79
Date

11416
Number

OFFICE COPY

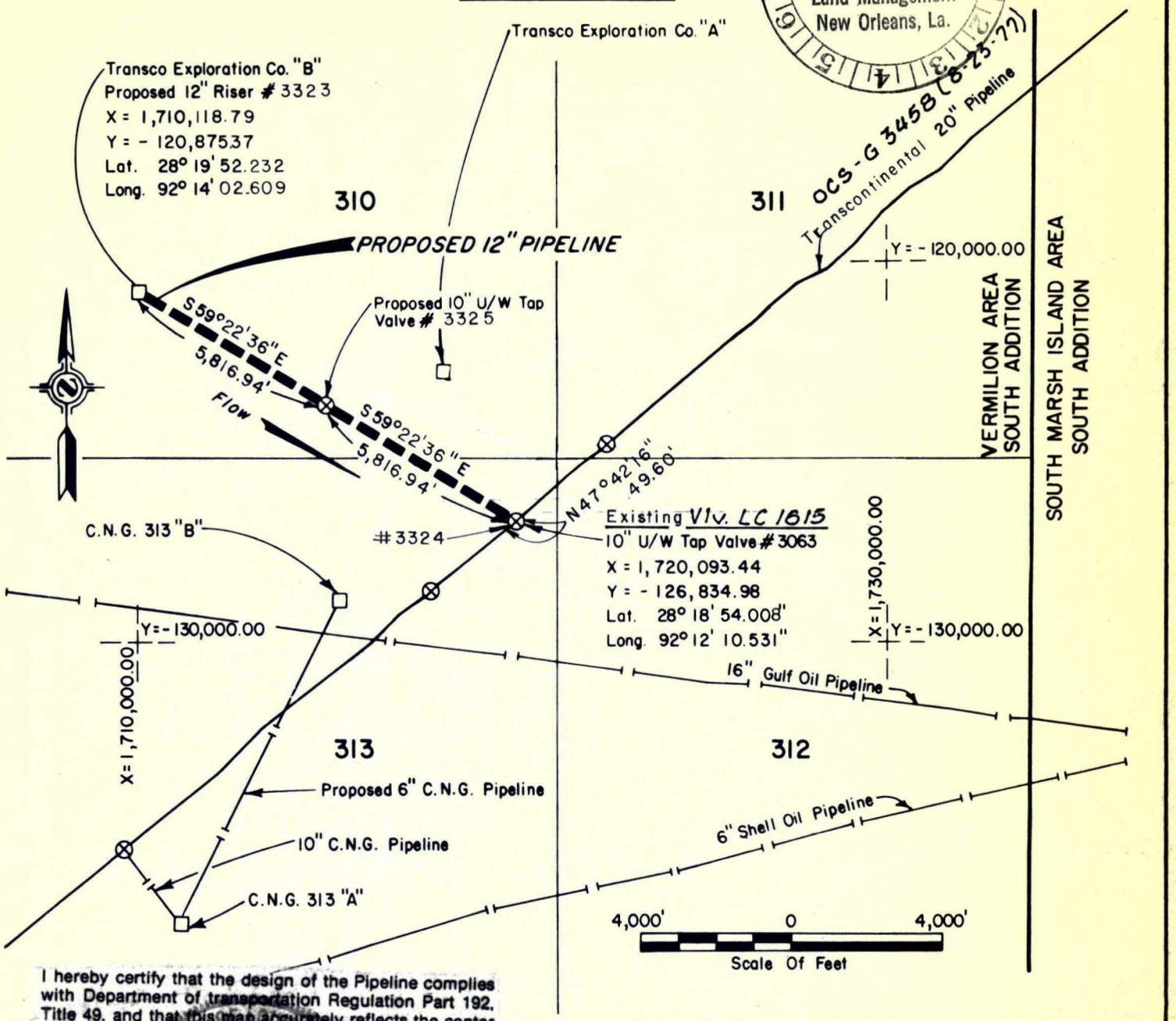
Transcontinental Gas Pipe Line Corporation
A Subsidiary of Transco Companies Inc.
Engineering Department
Houston, Texas

PROPOSED 12" NATURAL GAS PIPELINE
RIGHT OF WAY - GULF OF MEXICO
VERMILION AREA, SO. ADD., LOUISIANA

Drawn By RLS	Date 12/12/78	Approved By R.V.K	Date 12-15-78
Checked By R.V.K.	Date 12-15-78		
Approved By Drafting J S	Date 12-15-78	Approved By	
W. O. No. 5285.08	Scale Shown	General Group & Sys. Number	22-12-7091
SPSU	Sheet 1 of 4	Drg. No.	DI-A-001

BEST AVAILABLE COPY

VERMILION AREA SOUTH ADDITION



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RUSSELL J. JUDAH
REG. No. 11416
REGISTERED
PROFESSIONAL ENGINEER
IN
PETROLEUM INDUSTRIAL ENGINEERING

R. J. Judah

3-27-79
Date

11416
Number

Transcontinental Gas Pipe Line Corporation Engineering Department Houston, Texas
A Subsidiary of Transco Companies Inc.

PROPOSED 12" NATURAL GAS PIPELINE
RIGHT OF WAY - GULF OF MEXICO
VERMILION AREA, SO. ADD., LOUISIANA

Drawn By RLS	Date 2-12-78	Approved By R.V.K.	Date 12-15-78
Checked By R.V.K	Date 12-15-78		
Approved By Drafting JS	Date 12-15-78	Approved By	Engineer
W. O. No. 5285.08	Scale Shown	General Group & Gun Number	22-12-7091
	Sheet 2 of 4	Dwg. No.	DI-A-001

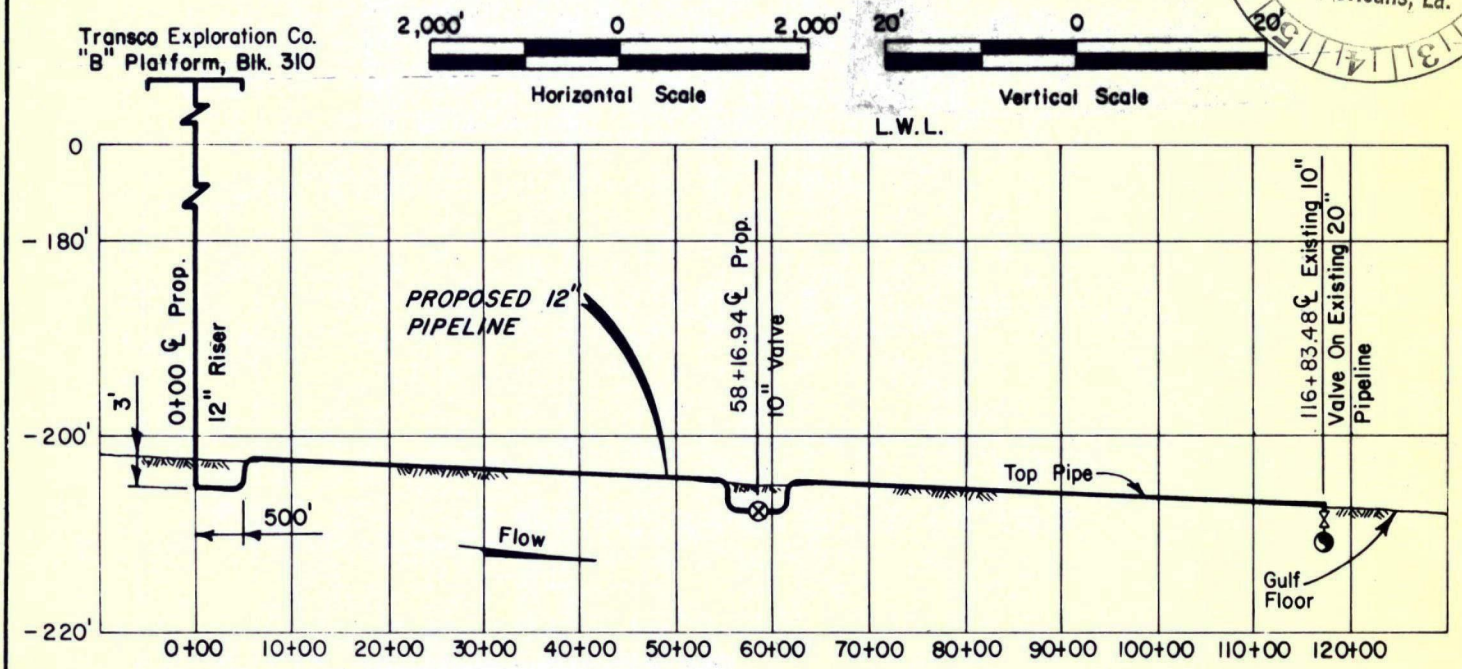
By | Revision | Date | No.

12" PIPELINE					
POINTS	BEARING	DISTANCE	"X"	"Y"	REMARKS
3323			1,710,118.79	-120,875.37	Proposed 12" Riser Block 310 "B"
3323 - 3325	S 59° 22' 36" E	5,816.94	1,715,124.46	-123,838.48	Proposed 10" U.V. Valve
3325 - 3324	S 59° 22' 36" E	5,816.94	1,720,130.13	-126,801.60	Tie-In Point To Vlv. Assembly
3324 - 3063	N 47° 42' 16" E	49.60'	1,720,093.44	-126,834.98	Existing 10" U.W. Valve On Existing 20" Pipeline Blk. 313

TOTAL = 11,683.48' (2.213 MILES) PROPOSED 12" PIPELINE

NOTES:

1. Coordinates, Bearings And Distances Shown Are Based On Louisiana Lambert Grid, South Zone.
2. This Pipeline Will Be Used To Transport Natural Gas From The Louisiana O.C.S. To The Northeastern United States.
3. Proposed Permanent Right Of Way Is 200 Feet In Width.



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RUSSELL J. JUDAH
REG. No. 11416
REGISTERED
PROFESSIONAL ENGINEER
IN
PETROLEUM INDUSTRIAL ENGINEERING

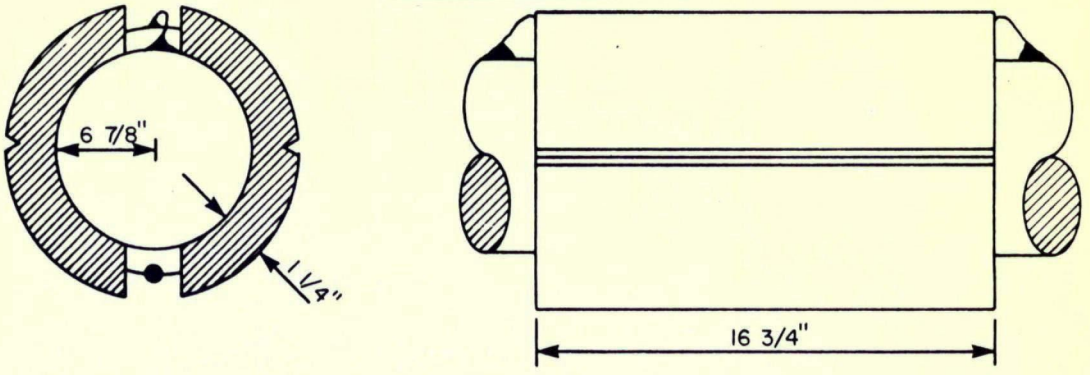
3-27-79
Date

11416
Number

By / Revision / Date / No.				
Transcontinental Gas Pipe Line Corporation — Engineering Department, Houston, Texas. A Subsidiary of Transco Companies Inc.				
PROPOSED 12" NATURAL GAS PIPELINE RIGHT OF WAY - GULF OF MEXICO VERMILION AREA, SO. ADD., LOUISIANA				
Drawn By R.L.S	Date 12-17-78	Approved By R.V.K.	Date 12-15-78	
Checked By R.V.K.	Date 12-15-78			
Approved By Drafting	Date 12-15-78	Approved By	Engineer	
W. O. No. 5285.08	Scale Shown	General Group & Gun Number	22-12-7091	
	Sheet 3 of 4	Dwg. No.	DI-A-001	

PROPOSED 12" PIPELINE FROM TRANSCO EXPLORATION CO. "B" PLATFORM IN BLOCK 310 TO AN EXISTING 10" U.W. VALVE IN BLOCK 313, VERMILION AREA, S.A.

GALVALUM II BRACELETS



Weight: 96 lbs.

Scale: N.T.S.

NOTES:

1. Galvalum II Anodes Theoretical Rating = 0.1530 Amp. Year / Lb.

   Practical = 0.1530 x 80% effective x 85% use factor = 0.104 Amp. Year / Lb.

2. Assuming 2% Damaged Coating and .005 Amperes Per Square Foot Required for Protection.
   Current Required = CR
   CR = Total Area x 0.02 x 0.005
   = 39,145.87 sq, ft, x 0.0001
   CR = 3.91 Amperes

3. Pounds of Galvalum II Required for 40 Years Protection:
   Lbs. = (3.91 Amperes/0.104 amp. Year / Lb.) x 40 Years
   Lbs. = 1505.61

4. 13.75" I.D. Galvalum II Anodes: 96 Lbs. Each
   Number of Anodes Required = N.R.
   N.R. = 15.68
   N.R. = 16 Anodes

5. 16 - 13.75" I.D. Galvalum II Anodes, On 740 Foot Spacing Will Be Installed On This Line. The First Anode On The Pipeline Will Be 100 ' South Of Transco Exploration Co.'s "B" Plaftorm. There Will Be 1 Anode Placed At The Base Of The Raiser Assembly. 1 Anode On The Valve Assembly.

6. Pipeline To Environment Voltages Will Be Observed At The Platform After The Line Is In Place To Assure That Adequate Corrosion Protection Is Being Provided.

7. Total Number Anodes Required = 18.

Designed Per Department Of Transportation Regulation Part 192, Title 49.

STATE OF LOUISIANA
RUSSELL J. JUDAH
REG. No. 11416
REGISTERED
PROFESSIONAL ENGINEER
IN
PETROLEUM INDUSTRIAL ENGINEERING

3-22-79
Date

11416
Number

Transcontinental Gas Pipe Line Corporation
A Subsidiary of Transco Companies Inc.
Engineering Department
Houston, Texas

PROPOSED 12" NATURAL GAS PIPELINE
RIGHT OF WAY - GULF OF MEXICO
VERMILION AREA, SO. ADD., LOUISIANA

Drawn By RLS	Date 12-12-78	Approved By R.V.K.	Date 12-15-78		
Checked By R.V.K.	Date 12-15-78				
Approved By Drafting LS	Date 12-15-78	Approved By	Engineer		
W. O. No. 5285.08	Scale None	General Group & Gun Number	22 - 12 - 7091		
PSH JEW	Sheet 4 of 4	Dwg. No.	DI - A - 001		

No. | Date | Revision | By

4032

Transco's "B" Plat. VR 310, lease G-3400 11,683' (2.212269 MN)
SSTI w Transco's existing 20" VR 313, lease G-1172
6oz # Carbonate

PIPELINE APPLICATION CHECK LIST

INSTRUCTIONS: Check the blank on the left if the statement is affirmative or correct data submitted. Mark N/A (not applicable) where appropriate. Place an X in the blank if the answer is no or if the data was not submitted. All blanks marked X must be rectified to a check (or qualified) before approval can be given for the pipeline. Enter data in the blanks on the right.

A. Verify the following general information:

I. SOP

_____ a. Do the leases involved on the P/L application appear on the current Suspension of Production (SOP) Lease List?

II. POD

_____ a. Is the pipeline presently covered by an approved Plan of Development (POD)? (Discuss ROU&E with Doug.) If yes, go to III. If No, go to 250.34. (Requires submittal to POD/P by operator to District.)

III. USGS Application

_____ a. The applicant is a Federal lease holder and the pipeline is to be used for such purposes as:

_____ 1. Moving production to a control point for gathering, treating, storing, or measuring.

_____ 2. Delivery of production to a point of sale.

_____ 3. Delivery of production to a pipeline operated by a transportation company.

_____ 4. Moving fluids in connection with lease operations, such as for injunction purposes.

_____ b. The pipeline is within the lease boundary owned by the operator (If yes, include 30 CFR 250.19(b) in approval.)

_____ c. Pipeline is within continguous lease boundaries. (If yes, include 30 CFR 250.19(b) in approval.)

_____ d. Pipeline is within non-continguous lease boundaries. (If yes, include 30 CFR 250.18(c) and 30 CFR 250.19(b) in approval.)

_____ e. Lessee's "intent to cross" letter are received. (Wait 30 days for letters of objection. Only objections concerning interference with lease operations will be considered.)

_____ f. Pursuant to Secretarial Order 2974 of April 30, 1975, check the following:

_____1. FWS notified _____.

_____2. FWS comment received _____.

_____3. BLM notified _____.

_____4. BLM comment received _____.

_____5. Environmental Impact Evaluations completed _____.

_____6. If related to new POD/P, date of POD/P approval _____.

IV. BLM Application

✓ a. The pipeline must be able to be subjected to common carrier provisions (i.e., no downstream production facilities or downstream pipelines which could not be subjected to common carrier provisions).

V. DOT Pipelines

✓ a. The pipelines are shoreward of the outlet flange at the first process facility (If yes, include 49 CFR 192 for gas P/L or 49 CFR 195 for oil P/L in approval).

VI. DOI Pipelines

N/A a. Pipelines not covered by V above.

B. Verify that the information shown on the safety equipment schematic drawing contains the following:

✓ I. The pipeline leaving the platform receiving production from the platform is equipped with high and low pressure sensors located upstream of departing check valves to directly or indirectly shut-in the well or wells on the platform.

N/A II. The pipeline delivering production to production facilities on the platform is equipped with an automatic fail close valve tied into the automatic and remote shut-in system. SSTI

N/A III. The pipeline crossing the platform which does not deliver production to the platform, but which may or may not receive production from the platform, is equipped with high and low pressure sensors connected to an automatic fail close valve located in the upstream portion of the pipeline at the platform. In addition, the sensors are tied into either the platform's automatic and remote shut-in system or an independent remote shut-in system.

✓ IV. The pipeline boarding the platform is equipped with a check valve. SSTI

✓ V. The pipeline leaving the platform is equipped with a check valve.

N/A VI. The pipeline pump is shown as well as its associated high and low pressure shut-in device.

✓ VII. If pipeline pilots are located on any process vessel, all flow restrictions (backpressure valves, chokes) downstream of pilots are indicated on the schematic.

✓ VIII. Pressure source is drawn into the schematic with the following:

✓ a. Source DEHYDRATOR.

✓ b. Maximum source pressure, psig 1440.

✓ IX. The rated working pressures of all separators, pumps, compressors, valves, flanges, and fittings upstream of and including the boarding automatic fail close valve are shown.

ANSI 600 1440

C. Verify that the location plat depicts the following:

✓ I. Location of P/L

✓ II. Length of P/L

✓ III. Size of P/L

✓ IV. Type of service

✓ V. Direction of flow

D. Verify that the information given on the submitted data sheet is complete; and calculate the $MAOP_{sc}$, $MAOP_{rc}$, $MAOP_{p/l}$.

I. General information for calculating $MAOP_{sc}$, $MAOP_{rc}$, etc.

a. Size of P/L, inches	12.75	12.75	12.75
b. Weight of P/L, lbs./ft.	57.53	73.22	88.57
c. Grade of P/L	X42	B	B
d. Wall thickness, inches	.438	.562	.688
e. Size of riser, inches	.	.	12.75
f. Weight of riser, lbs./ft.	.	.	88.57
g. Grade of riser	.	.	B
h. Wall thickness of riser, inches	.	.	.688
i. Minimum WP rating of piping, fittings, valves, psig	~~2654~~		1440
j. Hydrostatic test pressure (HTP), psig	2654 to 2711		
k. Hold time, hrs.	.	8	
l. Classification of P/L (oil or gas)	gas	.	

10.75 UTI connection

54.74/48.19

B / B

.5 / .438

(4) $\frac{2ST}{D} = \frac{(4)(35000)(.5)}{10.75} = 3256$ (1) $\frac{2ST}{D} = 12.7 \leftarrow 42000 \times 2 \times .438 = 2886$

(5) $\frac{2ST}{D} = \frac{(2)(35000)(.438)}{10.75} = 2852$ (2) $\frac{2ST}{D} = \frac{(2)(.562)(35000)}{12.75} = 3085$

III. DOT Pipelines

a. IP @ SMYS for submerged pipeline (3) = $\frac{2st}{D} = \frac{(2)(.688)(35000)}{12.75} = 3777$

b. (.72 x IP @ SMYS) for submerged pipeline = _____ ($MAOP_{sc}$)

2078 (1)
2222 (4)
2720 (3)
2344 (4)
2054 (5)

NOTE:

c. IP @ SMYS for riser = $\frac{2st}{D} = \frac{(2)(.688)(35000)}{12.75} = 3777$

d. For oil P/L (.60 x IP @ SMYS) for riser = _____ ($MAOP_{rc}$)

For gas P/L (.50 x IP @ SMYS) for riser = 1889

e. See Ii above 1440 ($MAOP_{pfv}$)

✓ f. Are b, d, and e $\geq$ MSP

1440 $\geq$ 1440

NOTE: If not, a departure is necessary requiring redundant safety equipment.

N/A A written request for a departure has been received and the redundant safety equipment is satisfactory.

g. Limit of Testing

N/A 1. For oil P/L:

Is 1.25 MSP $\leq$ HTP $\leq$ .95 (IP @ SMYS for smaller IP of a and c above)

_____ $\leq$ _____ $\leq$ _____

✓ 2. For gas P/L riser component:

Is 1.50 MSP $\leq$ HTP of riser $\leq$ .95 (IP @ SMYS of c above)

2160 $\leq$ 2654 - 2711 $\leq$ 3588

✓ 3. For gas P/L submerged component:

Is 1.25 MSP $\leq$ HTP of submerged component (3) $\leq$ .95 (IP @ SMYS of a above)

1800 $\leq$ 2654 - 2711 $\leq$ 3588 2931 (2) 2741 (1) 3093 (4) 2709 (5)

OK close enough

NOTE: If not, inquire of the operator as to what he considers a limit of testing as a percentage of IP @ SMYS.

N/A Operator's answer _____% of IP @ SMYS (for smaller IP)

IV. Pipeline Receiving Production (Installed Prior to July 31, 1977)

G-3458

	Submerged Component	Riser
a. Size, inches	20"	
b. Grade		
c. Wall thickness, inches		
d. Minimum working pressure of valves and flanges (MAOPpfv)	1440	
e. Date of last hydrostatic test		
f. HTP, psig		
g. Hold time, hours		
h. MAOP based on HTP HTP/1.25		
i. IP@SMYS for submerged P/L 8ST/D		
j. (.72 X IP@SMYS) for submerged P/L (MAOPsc)		
k. IP@SMYS for riser 2ST/D		
l. (.60 X IP@SMYS) for riser (MAOPrc)		

m. If the receiving P/L is a DOT gas P/L and has not been tested since July 1, 1971, then what is the HAOP to which the segment was subjected during the 5 years prior to July 1, 1976?

n. MAOP of receiving P/L _ MAOP of proposed P/L _
MAOP of proposed P/L

h. $MAOP_{p/l}$ based on HTP

N/A 1. For oil P/L HTP/1.25 = _____

✓ 2. For gas P/L riser component 2654-2711 HTP/1.5 = 1769 ~ 1807 of riser

✓ 3. For gas P/L submerged component 2654-2711 HTP/1.25 = 2169 - 2123 of submerged component

N/A i. For oil P/L Is HTP hold time ≥ 24 hours

✓ For gas P/L Is HTP hold time ≥ 8 hours

✓ j. $MAOP_{p/l}$ = the smallest of b, d, e, and h above

1440 ($MAOP_{p/l}$)

✓ k. Test pressure ANSI & API carbon steel RTJ & RF flanges and valves

2654-2711 (From table 3.1 page 31 API RP 14E)

✓ l. Is k ≥ HTP 2175

NOTE: If not, add statement in approval letter to insure valves and flanges are not subjected to test pressure.

E. Verify that the information given on the submitted data sheet is complete; and calculate the life expectancy of the pipelines corrosion protection ($LE_{p/l}$)

I. General Information for Calculating $LE_{p/l}$

✓ a. Type of corrosion protection (platform anodes, P/L anodes, or rectifiers)

___ b. If platform anodes are used:

1. Type of anode _____

2. Weight of unit anode, lbs. _____

✓ c. If pipeline anodes are used:

1. Type of anode GALVALUM II

2. Spacing interval, ft. _____

3. Weight of unit anode, lbs. 96# _____

II. Calculated Life Expectancy of Corrosion Protection

N/A a. If platform anodes are used, are they considered adequate _____

✓ b. If pipeline anodes are used:

$LE_{p/l} = 3.82 \times 10^4 \times W^o/DIR? = \frac{51.82\ ①}{41.03\ ②}$

W^o = weight of one anode, pounds =

D = outside diameter of pipe, inches

I = interval = length of pipe, feet ÷ total number of anodes = $\frac{1168.3}{16}$ ①②

R = consumption rate, lbs./amp-yr. 7.6 ① 9.6 = $\frac{1168.3}{18}$

✓ c. Is our calculated $LE_{p/l} \geq 20$ years

F. Verify that the information given on the submitted data sheet is complete; and calculate the specific gravity of the pipeline ($SP_{p/l}$)

I. General Information pertaining to $SG_{p/l}$

a. Description of pipelines protective coating _____

b. Description of risers protective coating _____

c. Description of pre-concrete coating _____

d. Density of concrete, lbs./cu. ft. 140

e. Thickness of concrete, inches 1"

f. Thickness of asphalt/somastic 1/2"

g. Gravity or density of products _____

For gas .60 (air = 1.0)

For oil/condensate _____ ° API, .72 (water = 1.0)

h. Given $SG_{p/l}$ 1.72 .688
1.53 .562
1.33 .438

II. $SG_{p/l}$

____a. Expoxy-coated pipelines:

$SG_{p/l} = 2.865\ W/D^2$

W = weight of bare pipe, lbs./ft.

D = diameter of pipe, inches

____b. For weighted pipelines:

$$SG_{p/l} = \frac{d_c}{d} + \frac{k_2}{(T-k_1)^2}\left(\frac{W+P}{k_3} - \frac{d_c}{d}\right)$$

d_c = density of concrete, lbs./ft.^{3}

d = density of fluid in which pipeline is submerged, lbs./ft.^{3}

k_1, k_2, k_3 = coefficients from tables

T = thickness of concrete coating, inches

W = weight of bare pipe, lbs./ft.

P = weight of double enamel coat and felt wrap, or weight of asphaltmastic coating, lbs./ft.

$SG_{p/l}$ = _____

____c. Is our calculated SG $\cong$ operator's given SG

_____ $\cong$ _____

NOTE: These values should be approximately the same. If not, resolve. If the SG is close to a value of 1, the pipeline is unacceptable and must be weighted with concrete or anchored securely to the bottom.

G. Verify the following general information:

I. Water Depth, ft. 208 (Max) 202 (Min)

II. Burial depth, ft. 0

III. Maximum Operating Pressure (MOP) 1440 500

IV. Capacity 40 M^{2}CFD 1024 psig in 1020 psig out

UNITED STATES GOVERNM

Memorandum

DEPARTMENT OF THE INTE...OR
BUREAU OF LAND MANAGEMENT

4032-1

IN REPLY REFER TO:
2883 (210)

To : Conservation Manager
Gulf of Mexico OCS Operations

Date: May 2, 1979

MAY 3 1979

From : Manager
New Orleans OCS Office

Subject : Transcontinental Gas Pipe Line Corporation's Pipeline Right-of-way Application (OCS-G 4032)

In accordance with the memorandum of understanding between the Bureau of Land Management and U. S. Geological Survey signed August 1, 1974, the subject application is attached.

Please review the technical aspects of the proposed pipeline. If you have any questions regarding this matter, please contact Mr. Autry J. Britton of this office.

Attachments
1. Application dated April 18, 1979
2. Engineering Data, undated
3. Drawing No. DI-A-001, Sheets 1 - 4 of 4
4. Drawing No. DI-A-002, Sheet 1 of 1

NOTED—MC INTOSH

DSC-1541-2
Mar. 1974

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Coastal Ecosystems
P.O. Box 4696
Panama City, Florida 32401

May 23, 1979

Memorandum

To : Manager, New Orleans OCS Office, Bureau of Land Management
New Orleans, La.

From : Assistant Leader - Coastal Ecosystems Activities, FWS
Panama City, FL

Subject: Review of Pipeline Applications

We have reviewed the following pipeline applications and have no objections to the proposed operations at these sites. The Environmental Assessment Branch, National Marine Fisheries Service, was consulted regarding these applications and it has no objections.

1. Pipeline Application, Transcontinental Gas Pipe Line Corporation, OCS-G 4029, Main Pass Area

2. Pipeline Application, Northern Natural Gas Company, OCS-G 4031, West Cameron Area

3. Pipeline Application, Transcontinental Gas Pipe Line Corporation, OCS-G 4032, Vermilion Area, South Addition

4. Pipeline Application, Michigan Wisconsin Pipe Line Company, OCS-G 4033, Vermilion Area

James M. Barkuloo

James M. Barkuloo

DEPARTMENT OF TRANSPORTATION

MATERIALS TRANSPORTATION BUREAU

OCS-G 4032

August 9, 1979

Mr. Ceasar DeLeon, Acting Director
Office of Pipeline Safety Operations
Material Transportation Bureau
MTB-1
2100 2nd SW
Washington, D.C. 20590

Dear Mr. DeLeon:

Transcontinental Gas Pipe Line Corporation
Pipeline Right-of-way Application
(OCS-G 4032)

In accordance with the memorandum of understanding between the Department of the Interior and the Department of Transportation entered into on May 6, 1976, the following information is enclosed:

1. Action approved August 8, 1979
2. Application dated April 18, 1979
3. Drawing No. 22-12-7091/DI-A-001, Sheets 1 - 4 of 4
4. Environmental Assessment Record

Please sign and return the duplicate copy of this letter for our file.

Sincerely,

John L. Rankin
Manager

Enclosures (4)

RECEIVED AND ACKNOWLEDGED
This the 15 day of 8, 1979.

By: R Ratta

Title: C. Supvr

UNITED STATES GOVERNMENT

Memorandum

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

IN REPLY REFER TO:
2883 (210)

To : Regional Director
USFWS, Atlanta, Georgia

Date: May 2, 1979

From : Manager
New Orleans OCS Office

Subject : Pipeline Application, Transcontinental Gas Pipe Line Corporation, OCS-G 4032, Vermilion Area, South Addition.

Enclosed is a copy of a pipeline application and map from Transcontinental Gas Pipe Line Corporation for the proposed installation of a twelve-inch (12") natural gas pipeline in Vermilion Area, South Addition, Offshore Louisiana.

Please review and send your comments concerning the potential affects of development on the biotic resources along the pipeline right-of-way. Your prompt review and comments are requested.

Please refer to OCS-G 4032 in your reply.

/s/ John L. Rankin

Enclosures
1. Application dated April 18, 1979
2. Engineering Data, undated
3. Drawing No. DI-A-001, Sheets 1 - 4 of 4

cc:
Jim Barkuloo (w/encl)
U. S. Fish & Wildlife Service
P. O. Box 4696
Panama City, Florida 32401

210/JAKerwin,Sr./mhh/5-2-79

DSC-1541-2
May 1974

UNITED STATES GOVERNMENT

Memorandum

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

IN REPLY REFER TO:
2883 (210)

TO : Conservation Manager
Gulf of Mexico OCS Operations

Date: May 2, 1979

FROM : Manager
New Orleans OCS Office

SUBJECT : Transcontinental Gas Pipe Line Corporation's Pipeline Right-of-way Application (OCS-G 4032)

In accordance with the memorandum of understanding between the Bureau of Land Management and U. S. Geological Survey signed August 1, 1974, the subject application is attached.

Please review the technical aspects of the proposed pipeline. If you have any questions regarding this matter, please contact Mr. Autry J. Britton of this office.

/s/ John L. Rankin

Attachments
1. Application dated April 18, 1979
2. Engineering Data, undated
3. Drawing No. DI-A-001, Sheets 1 - 4 of 4
4. Drawing No. DI-A-002, Sheet 1 of 1

210/AJBritton/mhh/5-2-79

BLM OCS – G4032

CNG PRODUCING COMPANY
1800 BANK OF NEW ORLEANS BUILDING
1010 COMMON STREET
NEW ORLEANS LA
70112
504 523-5581

EUGENE C. SMITH
Vice President, Operations

August 7, 1979

Mr. Paul E. Newton, Senior Permit Engineer
Transcontinental Gas Pipeline Corporation
P. O. Box 1396
Houston, Texas 77001

Re: Application For Proposed 3.5" Pipeline
Blocks 310 and 313 Vermilion Area
Offshore, Louisiana, Gulf of Mexico

Dear Mr. Newton:

CNG Producing Company, co-lessee and operator of the Vermilion Block 313, has no objection to the granting of a right-of-way permit to lay a pipeline across our lease, subject to the following conditions:

1.) In constructing, operating, maintaining and repairing the pipeline, you will secure the necessary permits and approvals from all governmental agencies having jurisdiction thereof, and will comply with all applicable laws, rules and regulations.

2.) You will notify and obtain permission from CNG Producing Company operator of Verm.Blk.313 and all other co-lessees of this lease.

3.) You will agree to indemnify and hold CNG free and harmless from and against any and all loss, cost, damages, expenses, claims, actions and liabilities on account of property damage, loss or destruction, and on account of injury or death of any person(s), including without limitations:

agents, servants, invitees, or employees of CNG, or to any third parties, resulting from your constructing, operating, maintaining and repairing its aforementioned pipeline.

4.) Upon request, you will promptly locate and appropriately mark the proposed pipeline when such action is necessary for the furtherance of any drilling or other activity by CNG on the referenced lease.

NOTED—MC INTOSH

5.) You will notify Francis L. Green , in New Orleans, Louisiana, at telephone number (504)523-5581 at least 72 hours prior to the actual laying of your pipeline, in order that CNG's representative can be present during the laying of the line. You will furnish transportation to and from the site of the laying and also room and board for CNG's representative.

6.) Within sixty (60) days after the installation of your pipeline, you will furnish CNG three (3) "as built" survey plats with Lambert Coordinates, showing the actual location where your pipeline crosses CNG's lease.

Very truly yours,

CNG PRODUCING COMPANY

By: _____
Eugene C. Smith,
Vice President, Operations

Accepted and Agreed To This 24th Day of August, 19 79

TRANSCO EXPLORATION COMPANY

By: _____

Title: _____

G. L. DRENNER, JR.
Vice President - Production

CR/ya

cc: Mr. John L. Rankin,
Manager, Bureau of Land Management
The Outer Continental Shelf Office
Hale Boggs Federal Building - Suite 841
500 Camp Street
New Orleans, Louisiana 70130

U. S. Geological Survey
Metairie, La.

Transco
Exploration Company

A Subsidiary of Transco Companies Inc

2700 South Post Oak Road
P O Box 1396
Houston Texas 77001
713-626-8100

August 20, 1979

Mr. Eugene C. Smith
Vice-President, Operations
CNG Producing Company
1800 Bank of New Orleans Building
1010 Common Street
New Orleans, Louisiana 70112

Re: Transco Exploration Company's Proposed
3.5" Pipeline Crossing Blocks 310 and 313
Vermilion Area, Offshore Louisiana, Gulf of Mexico

Dear Mr. Smith:

Enclosed please find two originals of that certain Letter Agreement (the "Agreement") dated August 7, 1979 between Transco Exploration Company (TXC) and CNG Producing Company (CNG) which are executed and hereby delivered subject to your agreement to delete Paragraph 3 thereof in its entirety and replace it with the following paragraph:

3) TXC shall indemnify and hold CNG Producing Company and its co-working interest owners and their respective representatives, successors and assigns (hereinafter referred to collectively as the "CNG Group") harmless from and against all losses, damages, expenses, claims, actions and liabilities of every nature, kind or character suffered or sustained by the CNG Group or by any third persons, including but not limited to, the agents, servants, invitees or employees of CNG, by reason of or incident to the permission granted herein to TXC to cross Block 313, Vermilion Area, offshore Louisiana, Gulf of Mexico, including but not limited to, the construction, operation, maintenance and repair of the aforementioned pipeline, except when such losses, damages, expenses, claims, actions or liabilities result from the gross negligence or willful misconduct of the CNG Group. Notwithstanding the foregoing, however, under no circumstances shall TXC be responsible to the CNG Group for any consequential damages, including without limitation, any loss of profits, or any damages resulting from production being shut in.

If you agree to the foregoing, please so indicate by signing below and returning one fully executed copy of this letter for our files.

Very truly yours,

TRANSCO EXPLORATION COMPANY

By G. L. Drenner, Jr.

G. L. Drenner, Jr.
Vice President-Production

mw

ACCEPTED AND AGREED TO
this 16th day of September, 1979

CNG PRODUCING COMPANY

By CHR

(Title)

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313

ENGINEERING DATA

1. The pipeline will not be buried because the water depth exceeds 200-feet at all points.

2. The proposed pipeline will cross no existing pipelines.

3. All valves and fittings on the submerged component will be buried to a minimum of one (1) foot below the mud line.

4. The length of the line between the riser and underwater tap valve is 11,683 feet or 2.21 miles.

5. The line pipe will be:

   12.750" O.D. x .438" W.T., API 5L Gr. x-42, 57.53 Lbs/ft.

   12.750" O.D. x .562" W.T., API 5L Gr. B, 73.22 Lbs/ft.

   12.750" O.D. x .688" W.T., ASTM A-106 Gr. B, 88.57 Lbs/ft.

6. The riser piping at the platform will be: 12.750" O.D. x .688" W.T., ASTM A-106 Gr. B, 88.57 Lbs/ft.

7. The underwater tie-in assembly will be

   10.750" O.D. x .500" W.T., ASTM A-106 Gr. B, 54.74 Lbs/ft.

   10.750" O.D. x .438" W.T., ASTM A-106 Gr. B, 48.19 Lb/ft.

8. The water depth ranges from 202 feet at the existing Block 310 "B" Vermilion platform to 208 feet at the existing Transcontinental 20" pipeline in Vermilion Block 313.

9. The cathodic protection system will be 95 Lb. Galvalum II bracelet anodes, as described on Dwg. 22-12-7091/DI-A-001, Sheet 4 of 4.

10. The products to be transported by the pipeline are natural gas and condensate, neither of which is corrosive to carbon steel pipe interior. However, the analysis of the transported product will be monitored and preventive measures such as pigging and/or inhibiting will be employed as necessary.

11. Protective coatings used on the underwater line pipe are 1/2" mastic and 1" thick, 140 Lbs/ft^3 concrete.

12. The bulk specific gravity of the empty pipe in seawater is:

Pipe Size	S.G.
12.750" x .688" W.T.	1.72

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Pipe Size	S.G.
12.750" x .562" W.T.	1.53
12.750" x .438" W.T.	1.33

13. The anticipated specific gravity of the natural gas is 0.60 and the condensate is 0.72.

14. The design working pressure of the system is as follows:

A. Maximum Allowable Operating Pressure based on valves and flanges will be 1440 psig (maximum working pressure of ANSI 600# valves and flanges).

B. Maximum Allowable Operating Pressure based on line pipe will be:

$$MAOP = \frac{2\ St}{D} \times F \times E \times T$$

$$MAOP = \frac{2(35,000) \times .688}{12.750} \times 0.72 \times 1.0 \times 1.0 = 2719 \text{ psig}$$

$$MAOP = \frac{2(35,000) \times .562}{12.750} \times 0.72 \times 1.0 \times 1.0 = 2221 \text{ psig}$$

$$MAOP = \frac{2(42,000) \times .438}{12.750} \times 0.72 \times 1.0 \times 1.0 = 2077 \text{ psig}$$

C. Maximum Allowable Operating Pressure based on the riser piping will be:

$$MAOP = \frac{2(35,000) \times .688}{12.750} \times 0.5 \times 1.0 \times 1.0 = 1888 \text{ psig}$$

D. Maximum Allowable Operating Pressure Based on the Underwater Tie-in Assembly will be:

$$MAOP = \frac{2(35,000) \times .438}{10.750} \times .60 \times 1.0 \times 1.0 = 1711 \text{ psig}$$

$$MAOP = \frac{2(35,000) \times .500}{10.750} \times .60 \times 1.0 \times 1.0 = 1953 \text{ psig}$$

E. Therefore, the Maximum Allowable Operating Pressure of the system is 1440 psig.

15. The anticipated operating pressures are estimated to range from 500 psig to 1440 psig.

16. The design capacity of the line is 40 MMCFD based inlet pressure of 1024 psig and outlet pressure of 1020 psig.

17. The hydrostatic test pressure will range from 2654 to 2711 psig held for 8 hours.

18. The design burial depth is shown on Drawing 22-12-7091/DI-A-001, Sheet 3 of 4.

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19. The platform riser below water will be coated with 3 mils (dry) of inorganic zinc-rich primer, and then flake glass-filled epoxy phenolic for a total dry film thickness of 24 to 40 mils.

    The above water piping will be coated with 3 mils (dry) or inorganic zinc-rich primer and then Hi-Build catalyzed epoxy for a total dry film thickness of 15 mils.

20. All piping, fittings, risers and components of the pipeline are designed in compliance with 49 CFR 192.

21. Construction information:

A.	Estimated Starting Date:	September 1, 1979
B.	Method of Construction:	Lay Barge
C.	Method of Burial:	Jet Bury Barge
D.	Estimated time Required to Lay and Bury Pipe:	2 weeks
E.	Estimated Time to Complete Project:	4 weeks

22. Company Contact:

Paul E. Newton, Senior Permit Engineer
Transcontinental Gas Pipe Line Corporation
P. O. Box 1396 Houston, Texas 77001
Telephone (713)871-2533

26833

CNG PRODUCING COMPANY
1800 BANK OF NEW ORLEANS BUILDING
1010 COMMON STREET
NEW ORLEANS LA
70112
504 523 5581

EUGENE C SMITH
Vice President, Operations

June 26, 1979

Transcontinental Gas Pipeline Corporation
Post Office Box 1396
Houston, Texas 77001

Attention: Mr. Paul E. Newton

Re: Application For Proposed 12" Pipeline Block 310 to 313 Vermilion Area
Offshore Louisiana, Gulf of Mexico

Gentlemen:

CNG Producing Company, co-lessee and operator of OCS-G-1172, lease, Verm. Blk. 313, has no objection to the granting of a right-of-way permit to lay a pipeline across our lease, subject to the following conditions:

1.) In constructing, operating, maintaining and repairing the pipeline, you will secure the necessary permits and approvals from all governmental agencies having jurisdiction thereof, and will comply with all applicable laws, rules and regulations.

2.) You will notify and obtain permission from CNG Producing Company operator of Verm. Blk. 313 and all other co-lessees of this lease.

3.) You will agree to indemnify and hold CNG free and harmless from and against any and all loss, cost, damages, expenses, claims, actions and liabilities on account of property damage, loss or destruction, and on account of injury or death of any person(s), including without limitations:

agents, servants, invitees, or employees of CNG, or to any third parties, resulting from your constructing, operating, maintaining and repairing its aforementioned pipeline.

4.) Upon request, you will promptly locate and appropriately mark the proposed pipeline when such action is necessary for the furtherance of any drilling or other activity by CNG on the referenced lease.

5.) You will notify Francis L. Green , in New Orleans, Louisiana, at telephone number (504)523-5581 at least 72 hours prior to the actual laying of your pipeline, in order that CNG's representative can be present during the laying of the line. You will furnish transportation to and from the site of the laying and also room and board for CNG's representative.

6.) Within sixty (60) days after the installation of your pipeline, you will furnish CNG three (3) "as built" survey plats with Lambert Coordinates, showing the actual location where your pipeline crosses CNG's lease.

Very truly yours,

CNG PRODUCING COMPANY

By: _____
Eugene C. Smith,
Vice President, Operations

Accepted and Agreed To This 5th Day of July, 1979

By: _____

Title: Vice Pres. - Engineering

CR/ya

cc: Mr. John L. Rankin,
Manager, Bureau of Land Management
The Outer Continental Shelf Office
Hale Boggs Federal Building - Suite 841
500 Camp Street
New Orleans, Louisiana 70130